



| Model                       |  | SP3018FM-L2                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hardware Features           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Interfaces                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Downlink Ports              |  | 16*10/100/1000 Base-T PoE+ RJ-45 (Auto-MDI/MDI-X)                                                                                                                                                                                                                                                                                                                                                                                                      |
| Uplink Ports                |  | 2* 1000/ 2500 Base-X SFP                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Management port             |  | 1* RJ45 Console                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PoE                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PoE Standard                |  | IEEE 802 .3af/at (PSE)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PoE Power Supply Type       |  | End-span                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| PoE Pin Assignment          |  | 1/2 ( + )    3/6 ( - )                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PoE Power                   |  | 30W max for each port,<br>240W Max                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Switch Property             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Standards                   |  | IEEE 802.3 10Base-T Ethernet<br>IEEE 802.3u 100Base-TX Ethernet<br>IEEE 802.3ab 1000Base-T Ethernet<br>IEEE 802.3z 1000Base-X Ethernet<br>IEEE802.3x Flow Control and Back Pressure<br>IEEE 802.1D Spanning Tree Protocol<br>IEEE 802.1w Rapid Spanning Tree Protocol<br>IEEE 802.1Q VLAN<br>ITU-T G.8032 ERPS<br>IEEE 802.1X Port Authentication Network Control<br>IEEE 802.1ab LLDP<br>IEEE 802.3ad LACP<br>IEEE802.3af PoE<br>IEEE802.3at PoE plus |
| Forwarding Modes            |  | Store and Forward                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Packet Buffer               |  | 12Mbit                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| MAC Table                   |  | 16k                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Switching Capacity          |  | 42Gbps                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Packet Forwarding Rate      |  | 31.2Mpps                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Jumbo Frame                 |  | 10kB                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Power Supply                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Input Voltage               |  | Power 1 (Main) : 44-57V DC, Power 2 (Backup) : 44-57V DC                                                                                                                                                                                                                                                                                                                                                                                               |
| Power Consumption           |  | Full loading without PoE ≤ 15W                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                             |  | PoE power budget ≤ 240W                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Connector                   |  | Removable 4-pin terminal block                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Reverse polarity protection |  | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Over-voltage protection     |  | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Over-current protection     |  | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Environmental Reliability   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PoE                         |  | Surge protection of power: IEC 61000-4-5 6KV/4KV    8/20us                                                                                                                                                                                                                                                                                                                                                                                             |
|                             |  | Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV 10/700us                                                                                                                                                                                                                                                                                                                                                                                     |
|                             |  | RS: IEC 61000-4-3 80 MHz- 1 Ghz: 10 V/ m                                                                                                                                                                                                                                                                                                                                                                                                               |
|                             |  | EFT: IEC 61000-4-4 4K/2K                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                             |  | CS: IEC 61000-4-6 10V                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                             |  | ESD: IEC 61000-4-2 Contact: 8K; Air: 15K                                                                                                                                                                                                                                                                                                                                                                                                               |
|                             |  | EMI: FCC Part 15B Class A                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                             |  | Shock: IEC 60068-2-27                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                             |  | Free Fall: IEC 60068-2-32                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                             |  | Vibration: IEC 60068-2-6                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Operating Temperature       |  | -40°C ~75°C                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Storage Temperature         |  | -40°C ~85                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating Humidity          |  | 5 %~95% ( Non-condensation)                                                                                                                                                                                                                                                                                                                                                                                                                            |
| LED Indicators              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| P ( Power indicator)        |  | Off: the device is power off or failed<br>Green On: the device power on is normal                                                                                                                                                                                                                                                                                                                                                                      |
| S (System status indicator) |  | Blinking: device initialization<br>On: device on and normal operation                                                                                                                                                                                                                                                                                                                                                                                  |
| Copper ports                |  | 1-16 Green indicators<br>Off: ports link down<br>On: ports link up<br>Blinking: data on TX/ RX<br>1-16 Yellow indicators<br>Datasheet 5<br>Off: PoE is not working<br>On: PoE is working                                                                                                                                                                                                                                                               |
| Fiber ports                 |  | 17-18 Fiber ports indicators<br>Off: ports link down<br>Green On: ports link up<br>Green Blinking: data on TX/ RX                                                                                                                                                                                                                                                                                                                                      |
| Dimensions (W* D* H )       |  | 54* 115* 158mm                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Net Weight                  |  | 1.43kg                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Installation                |  | Desktop/ DIN-rail                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Certifications              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Certifications              |  | CE, FCC, RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                          |