

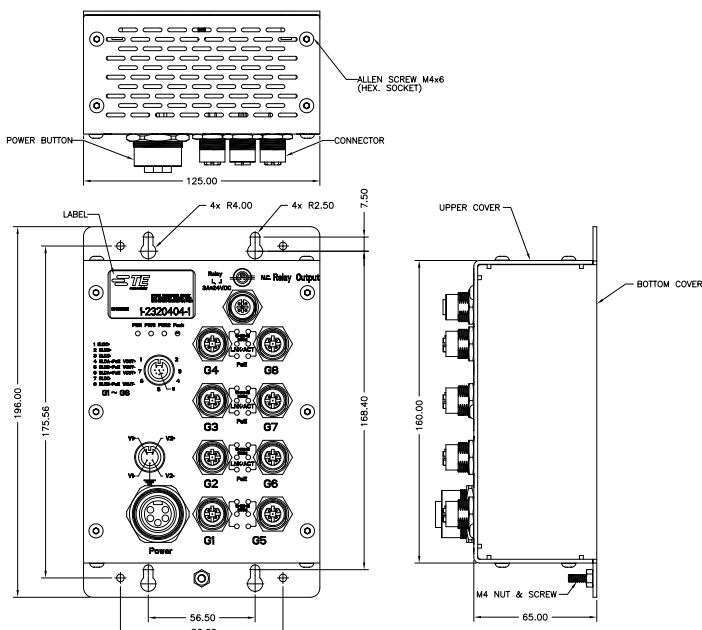


# 8-PORT EN50155 GIGABIT POE ETHERNET SWITCH

## 1GBPS UNMANAGED ETHERNET SWITCH WITH POE AND 2X BYPASS

The 8-port EN50155 Gigabit Ethernet switches are designed for industrial applications, such as rolling stock, vehicle, and railway applications. The products are EN50155 compliant, unmanaged Ethernet switches with eight (8x) 10/100/500/1000Base-T(X) P.S.E. ports. The 8-port Ethernet POE switches use M12 connectors to guarantee reliable operation during tough environmental conditions, such as vibration and shock. The 8-port Gigabit POE ethernet switch includes 2 bypass ports that protect the network from failures by ensuring network integrity during power loss. The 5-port PoE switch also supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. Furthermore they are provided with reversed polarity protection, overcurrent protection, redundant power inputs and broadcast storm protection

### Technical Drawing



## 8-PORT EN50155 GIGABIT POE ETHERNET SWITCH

1GBPS UNMANAGED ETHERNET SWITCH WITH 2XBYPASS

| Part Number                                              |                                                                                                                                                                                                 |             |                                              |             |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------|-------------|
|                                                          | 1-2320404-4                                                                                                                                                                                     | 1-2320404-1 | 1-2320404-5                                  | 1-2320404-6 |
| Physical ports                                           |                                                                                                                                                                                                 |             |                                              |             |
| 10/100/1000Base-T(X) Ports                               | 8 x M12 connector (8-pin M12 A-coding)                                                                                                                                                          |             |                                              |             |
| Technology                                               |                                                                                                                                                                                                 |             |                                              |             |
| Ethernet Standards                                       | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX<br>IEEE 802.3ab for 1000Base-T<br>IEEE 802.3x for Flow control<br>IEEE 802.3at compliant PoE specification (Maximum 30Watts per port)     |             |                                              |             |
| MAC Table                                                | 4K MAC addresses                                                                                                                                                                                |             |                                              |             |
| Processing                                               | Store-and-Forward                                                                                                                                                                               |             |                                              |             |
| LED Indicators                                           |                                                                                                                                                                                                 |             |                                              |             |
| Power indicator                                          | Green : Power LED x 3                                                                                                                                                                           |             | Green : Power LED x 1                        |             |
| Fault Indicator                                          | Amber : Indicate PWR1 or PWR2 failure                                                                                                                                                           |             |                                              |             |
| 10/100/500Base-T(X) M12 port indicator and POE indicator | Top for 10/100/1000Mbps port Link/Act indicator. Green for 1Gbps link, Amber for 10/100 Mbps link<br>Middle Amber for 500Mbps port Link/Act indicator<br>Bottom blue for PoE Injected indicator |             |                                              |             |
| Fault contact                                            |                                                                                                                                                                                                 |             |                                              |             |
| Relay                                                    | Relay output to carry capacity of 3A at 24VDC on M12 connector (5-pin A-coding)                                                                                                                 |             |                                              |             |
| Power                                                    |                                                                                                                                                                                                 |             |                                              |             |
| Redundant Input Power                                    | Dual DC inputs. 12~57VDC on 5-pin M23 connector                                                                                                                                                 |             | 72~110VDC power input on 5-pin M23 connector |             |
| Power Consumption (Typ.)                                 | 2.88W                                                                                                                                                                                           | 6.24W       | 7.88W                                        | 11.24W      |
| PoE Output Power                                         | 60Watts (12~24VDC), 120 Watts (24~57VDC)                                                                                                                                                        |             | TBD                                          |             |
| Overload Current Protection                              | Present                                                                                                                                                                                         |             |                                              |             |
| Reverse Polarity Protection                              | Present                                                                                                                                                                                         |             |                                              |             |
| Physical Data                                            |                                                                                                                                                                                                 |             |                                              |             |
| Ingress Protection                                       | IP-30                                                                                                                                                                                           |             |                                              |             |
| Dimensions (W x D x H)                                   | 125 x 65 x 196 mm                                                                                                                                                                               |             |                                              |             |
| Weight                                                   | 979g                                                                                                                                                                                            | 1001g       | 979g                                         | 1001g       |
| Environmental                                            |                                                                                                                                                                                                 |             |                                              |             |
| Storage Temperature                                      | -40 to 85° C (-40 to 185° F)                                                                                                                                                                    |             |                                              |             |
| Operating Temperature                                    | -40 to 75° C (-40 to 167° F)                                                                                                                                                                    |             |                                              |             |
| Operating Humidity                                       | 5% to 95% Non-condensing                                                                                                                                                                        |             |                                              |             |
| Cable Data                                               |                                                                                                                                                                                                 |             |                                              |             |
| EMI                                                      | FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4)                                                                                                                 |             |                                              |             |
| EMS                                                      | EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11                                                                        |             |                                              |             |
| Shock & Vibration                                        | IEC60068-2-27, IEC600068-2-6, IEC60068-2-32, EN61373                                                                                                                                            |             |                                              |             |