

| <b>IEEE Standards</b>  | <b>Number</b> |
|--|---------------|
| Ethernet Layer 2 protocols (and transmission over the original thick coax)   | 802.3         |
| EAP (Extensible Authentication Protocol). Can force authentication (login & password) before devices are allowed to connect to network | 802.1 X       |
| Family of Wireless Networking Standards  | 802.11        |

| <b>IEEE Ethernet over Copper Twisted Pair Standards</b> | <b>Number</b> |
|---|---------------|
| 10BASE-T Ethernet (10 Mbps)                             | 802.3i        |
| 100BASE-T Fast Ethernet (100 Mbps)                      | 802.3u        |
| 1000BASE-T Gigabit Ethernet (1 Gbps)                    | 802.3ab       |
| 10GBASE-T 10-Gigabit Ethernet (10 Gbps)                 | 802.3an       |

| <b>IEEE Ethernet over Glass Fiber</b>       | <b>Number</b> |
|---|---------------|
| 1000BASE-X, SX, LX (1 Gbps)                 | 802.3z        |
| 10GBASE-X (10 Gbps)                         | 802.3ae       |
| 40GBASE-X (40 Gbps) & 100GBASE-X (100 Gbps) | 802.3ba       |

| <b>Switch Protocols</b>  | <b>Authority</b> | <b>Number</b> |
|--|------------------|---------------|
| DTP (Dynamic Trunking Protocol)  | Cisco            | —             |
| STP (Spanning Tree Protocol)   | IEEE             | 802.1 D       |
| RSTP (Rapid Spanning Tree)—Original specification; it's now part of normal STP, above. | IEEE             | 802.1 W       |
| VTP (VLAN Trunking Protocol)   | Cisco            | —             |
| Trunk (Normal & More Common Standard)  | IEEE             | 802.1 Q       |
| ISL (Inter-Switch Link) Trunk  | Cisco            | —             |

| <b>Hardware</b>   |      |
|---|------|
| Generic port that can adapt to a variety of media using a pluggable transceiver | SFP+ |