






RUGGED ETHERNET SWITCHES & ROUTERS

Designed and tested to operate under the most demanding environmental conditions

X-ES



Ethernet Switch & Router Cards

| |  |  |  |  |  |
|----------------------------------|---|---|--|---|---|
| FORM FACTOR | 6U VPX | 3U VPX | 3U VPX | 3U VPX | XMC / PMC |
| GIGABIT ETHERNET | Up to 12x 10/100/1000BASE-T, Up to 88x 1000BASE-X | 14x 10/100/1000BASE-T 6x 1000BASE-X | 6x 10/100/1000BASE-T 6x 1000BASE-X | 6x 10/100/1000BASE-T | 4x 10/100/1000BASE-T |
| 10 GIGABIT ETHERNET | Up to 22x XAUI, Up to 2x 10GBASE-T, Up to 2x 10GBASE-SR | - | 4x XAUI or 4x 10GBASE-T | 1x XAUI, 3x 10GBASE-T | - |
| EXPANSION | XPedite5205 Cisco IOS® Router | XPedite5205 Cisco IOS® Router | XPedite5205 Cisco IOS® Router | XMC module | - |
| MANAGED LAYER 2 SWITCHING | Included | Included | Included | Included | Cisco IOS® |
| MANAGED LAYER 3 ROUTING | Optional | Optional | Optional | Optional | Cisco IOS® |

X-ES provides a comprehensive lineup of secure Gigabit and 10 Gigabit Ethernet switching and routing solutions. These board and system-level products are intended for rugged military and aerospace applications that require maximum security, performance, and capability with minimal Size, Weight, and Power (SWaP).

Extreme Engineering Solutions, Inc. (X-ES), a 100% U.S.A.-based company, designs and builds single board computers, I/O boards, power supplies, backplanes, chassis, and system-level solutions for embedded computing customers. X-ES offers cutting-edge performance and flexibility in design, plus an unparalleled level of customer support and service.

Packaged Ethernet Switches & Routers

XPand6200 Series Systems Utilizing 3U VPX & XMC Modules

| |  |  |  |
|----------------------------------|--|--|---|
| DIMENSIONS | 8.90 in. L x 4.88 in. W x 3.61 in. H | 8.90 in. L x 4.88 in. W x 3.61 in. H | 8.90 in. L x 4.88 in. W x 3.61 in. H |
| GIGABIT ETHERNET | 20x 10/100/1000BASE-T | 12x 10/100/1000BASE-T | 8x 10/100/1000BASE-T |
| 10 GIGABIT ETHERNET | - | 6x 10GBASE-T | 6x 10GBASE-T |
| EXPANSION | XPedite5205 Cisco IOS® Router | XPedite5205 Cisco IOS® Router | Intel® Core™ i7 Processor, Removable SSD, XPedite5205 Cisco IOS® Router |
| MANAGED LAYER 2 SWITCHING | Included | Included | Included |
| MANAGED LAYER 3 ROUTING | Optional | Optional | Optional |

XPand6000 Series Systems Utilizing Rugged COM Express & XMC Modules

| |  |  |  |
|----------------------------------|--|--|--|
| DIMENSIONS | 7.70 in. L x 4.88 in. W x 2.10 in. H | 7.70 in. L x 4.88 in. W x 2.10 in. H | 7.70 in. L x 4.88 in. W x 1.9 in. H |
| GIGABIT ETHERNET | 4x 10/100/1000BASE-T | 4x 10/100/1000BASE-T | 4x 10/100/1000BASE-T |
| 10 GIGABIT ETHERNET | - | - | - |
| EXPANSION | - | Intel® Core™ i7 Processor | - |
| MANAGED LAYER 2 SWITCHING | Cisco IOS® | Cisco IOS® | Cisco IOS® |
| MANAGED LAYER 3 ROUTING | Cisco IOS® | Cisco IOS® | Cisco IOS® |