Comnet CNGE20FX4TX16MS All Gigabit Managed Ethernet Switch with (16) 10/100/1000TX plus (4) 100/1000FX SFP Ports

for number and description of SFP modules. Console RS232 connector, RJ45 6-pin Screw Terminal Block (including relay) Power Reserve Polarity Protection Overload Current Protection Present Power Supply 12 - 48VDC, Redundant power Fault Output 1 Relay Output Power Consumption Mechanical LED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation Environmental MTBF >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40'Cto 75'C	Ethernet	
Junios France	Mac Address	8KMAC address table
VLAN Group		
Port Based VLAN, Q-in-Q (VLAN Stacking), GVRP		
Port Mirroring Per Port, Multi-source port PMultibust GMF Snooping v1/22/3, MLD Snooping, IGMP Immediate leave Some Control Stroadcast, Multicast, Unknown unleast EEEB02.15-STP, IEEB02.15 MSTP, I	·	
P. Multicast IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate loave		
Storm Control Redundancy Broadcast, Multicast, Unknown unicast Redundancy BESE002 10-STP, IEEE802.1 th MSTP, EEE802.1 th RSTP, X-Ring Pro with ultra high-speed recovery time less than 20 ms WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority Class of Service Rate Limiting MRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority Rate Limiting Ingress Rate limit, Egress Rate limit, Egress Rate limit, Egress Rate limit Link Aggregation Recurity Security Port Security Static, Dynamic Bio2/lx (Port-Based, MDS/TLS/TLS/PEAP Encryption) Management DHCP Client, Server, Option69/67/82 Access SNNP y11/20/34, WEB, Teinet, RMON, Standard MIB, Private MIB Security access SNNP y11/20/34, WEB, Teinet, RMON, Standard MIB, Private MIB Security access SNP SNP Client Connectors 10/100/1 COOBase-T(X) 16 x RJ45 4 x 100/1000 SFP sockets Requires selection of sock-separately SFP1 Modules, Seo Combet data sheet "SFP Small Form-Factor Pluggable Module for number and description of SFP modules. Console Reserve Polarity Protection Present Power Beneve Polarity Protection Present Power Supply 12 -48VDC, Redundant power Fault Output Present ED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case Omeration Link Agreements Link Agreem		l i i i i i i i i i i i i i i i i i i i
Redundancy IEEE802.1D-STP, IEEE802.1s MSTP, IEEE802.1v-RSTP, X-Ring Pro with ultra high-speed recovery time less than 20 ms Pronty Queue Scheduling WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Pronty Class of Service IEEE802.1g Based CoS, IF TOS, DSCP based CoS Rate Limiting Ingress Rate limit, Egress Rate limit IEEE802.2ad Dynamic Port Trunking, Static Port Trunking Security Port Security Port Security Static Dynamic Port Trunking, Static Port Trunking Security Port Security Port Security Port Security Static Port Security Port Security Static Port Security Port Security Static Port Security Static Port Security Port Security Static Port Security Securit		
Moranian	Storm Softion	
Priority Cueue Scheduling WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority Class of Service Rate Limiting Ingress Rate limit. Egress Rate limit Ingress Rate limit. Egress Rate limit Register Rose (DS, IP TOS, DSCP based CoS Rate Limiting Ingress Rate limit. Egress Rate limit Ingress Rate limit. Egress Rate limit. Ing	Redundancy	
IEEE 802.1p Based CoS, IP TOS, DSCP based CoS Rate Limiting Ingress Rate limit. Egress Rate limit. Egress Rate limit. Inchining Ingress Rate limit. Egress Ra	QoS	
Rate Limiting Ingress Rate limit, Egress Rate limit Link Aggregation IEEE 802.3ad Dynamic Port Trunking. Static Port Trunking Security Fort Security Static, Dynamic Authentication 802/k (Port-Based, MDS/TLS/TTLS/PEAP Encryption) Management DHCP Client, Server, Option86/67/82 Access SNMP Y1/x2cV3, WEB, Teinet, RMON, Standard MIB, Private MIB Security access SSH2.0, SSL Software upgrade TFFP, HTTP, Dual Image NTP SNTP client Connectors 10/100/100/Base-T(X) 16 x R.45 4 x 100/1000 SFP sockets Requires selection of sold-separately SFP1 Modules, See ComNet data sheet "SFP Small Form-Factor Pluggable Module for number and description of SFP modules. Console RS23 connector, R45 Power 6-pin Screw Torminal Block (including relay) Power Reserve Polarity Protection Present Power Solarity Protection Present Fault Output 1 Relay Output 2 A 13 x 5.98 in (7.4 x 10.5 x 15.2 cm) 1 Installation 1 Din Rail (35mm track) or Wall Mount 1 Environmental Fireformental Fireformental 1 Outpur O	Priority Queue Scheduling	WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority
Link Aggregation IEEE 802.3ad Dynamic Port Trunking. Static Port Trunking Security Port Security Static, Dynamic Authentication 802/tk (Port-Based, MDS/TLS/TTLS/PEAP Encryption) Management DHCP Client, Server, Option66/67/82 Access SNMP v1/v2c/v3, WEB, Teinet, RMON, Standard MiB, Private MiB Security access SSH2.0, SSL Server upgrade TFTP, HTTP, Dual Image NTP SNTP client Connectors 10/100/1 OOOBase-T(X) 16 x RJ45 4 x 100/1000 SFP sockets Requires selection of sold-separately SFP1 Modules. See ComNet data sheet "SFP Small Form-Factor Pluggable Module for number and description of SFP modules. Console RS232 connector, RJ45 Power Power Power Power Polarity Protection Present Power Verload Current Protection Present Power Consumption Present Power Consumption TBD Mechanical Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental MTBF Pozeonia Power Supple Hunidity 10% to 95% (Non-condensing) Operating Temperature -40°Cto 75°C	Class of Service	IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
Security	Rate Limiting	Ingress Rate limit, Egress Rate limit
Port Security	Link Aggregation	IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking
Authentication 802/1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption) Management DHCP Client, Server, Option66/67/82 Access SNMP +1/Vzck/3, WEB, Telnet, RMON, Standard MIB, Private MIB Security access SSH2.0, SSL Software upgrade TFTP, HTTP, Dual Image NTP SNTP client Connectors 10/100/1 DOOBase-T(X) 10/100/1 OOOBase-TX 16 x RJ45 4 x 100/1000 SFP sockets Requires selection of sold-separately SFP1 Modules. See ComMet data sheet "SFP Small Form-Factor Pluggable Modules for number and description of SFP modules. Console RS232 connector, RJ45 Power 6-pin Screw Terminal Block (including relay) Power Reserve Polarity Protection Overload Current Protection Present Overload Current Protection Present Power Consumption 18 elay Output Teach Output 1 Relay Output ED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation <td>Security</td> <td>•</td>	Security	•
Management Client, Server, Option68/67/82 Access SNMP v1/v2cv3, WEB, Teinet, RMON, Standard MIB, Private MIB Security access SSH2.0, SSL Software upgrade TFTP, HTTP, Dual Image NTP SNTP client Connectors I0/100/1 OOOBase-T(X) 10/100/1000Base-FX 4 x 100/1000 SFP sockets Requires selection of sold-separately SFP1 Modules. See Comblet data sheet "SFP Small Form-Factor Pluggable Module for number and description of SFP modules. Console RS232 connector, RJ45 Power 6-pin Screw Terminal Block (including relay) Power 6-pin Screw Terminal Block (including relay) Power Reserve Polarity Protection Present Overload Current Protection Present Power Supply 12 - 48VDC, Redundant power Fault Cutput 1 Relay Output Power Consumption TBD Mechanical LED LED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental 4	Port Security	Static, Dynamic
DHCP	Authentication	802/lx (Port-Based, MD5/TLS/TTLS/PEAP Encryption)
SNMP v1/v2cV3, WEB, Telnet, RMON, Standard MIB, Private MIB	Management	·
Security access SSH2.0, SSL	DHCP	Client, Server, Option66/67/82
Software upgrade NTP SNTP client Connectors 10/100/1 OOOBase-T(X) 16 x RJ45 4 x 100/1000 SFP sockets Requires selection of sold-separately SFP1 Modules. See ComNet data sheet "SFP Small Form-Factor Pluggable Module for number and description of SFP modules. Console RS232 connector, RJ45 6-pin Screw Terminal Block (including relay) Power Reserve Polarity Protection Present Overload Current Protection Present Overload Current Protection Present 12 - 48VDC, Redundant power Fault Output 1 Relay Output Power Consumption Mechanical LED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case P-30 Metal Case Dimensions 2-91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental MTBF >220,000 hours Operating Humidity 10% to 95% (Non-condensing)	Access	SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB
NTP	Security access	SSH2.0, SSL
Connectors 10/100/1 OOOBase-T(X) 16 x RJ45	Software upgrade	TFTP, HTTP, Dual Image
10/100/1 OOOBase-T(X) 16 x RJ45 4 x 100/1000 SFP sockets Requires selection of sold-separately SFP1 100/1000Base-FX Modules. See ComNet data sheet "SFP Small Form-Factor Pluggable Moduler for number and description of SFP modules. Console RS232 connector, RJ45 Power G-pin Screw Terminal Block (including relay) Power Reserve Polarity Protection Present Overload Current Protection Present Power Supply 12 - 48VDC, Redundant power Fault Output 1 Relay Output Power Consumption TBD Mechanical LED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental MTBF >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature	NTP	SNTP client
4 x 100/1000 SFP sockets Requires selection of sold-separately SFP1 Modules. See ComNet data sheet "SFP Small Form-Factor Pluggable Modules for number and description of SFP modules. Console RS232 connector, RJ45 Power 6-pin Screw Terminal Block (including relay) Power Reserve Polarity Protection Present Power Supply 12 - 48VDC, Redundant power Fault Output 1 Relay Output Power Consumption TBD Mechanical LED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental MTBF 220,000 hours Operating Humidity 10% to 95% (Non-condensing) -40/Cto 75′C	Connectors	
Modules. See ComNet data sheet "SFP Small Form-Factor Pluggable Modules for number and description of SFP modules. Console RS232 connector, RJ45 Power 6-pin Screw Terminal Block (including relay) Power Reserve Polarity Protection Present Overload Current Protection Present Power Supply 12 - 48VDC, Redundant power Fault Output Power Consumption Mechanical LED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental MTBF >220,000 hours Operating Humidity Operating Temperature 40/Cto 75°C	10/100/1 OOOBase-T(X)	16 x RJ45
Console RS232 connector, RJ45 Power 6-pin Screw Terminal Block (including relay) Power Reserve Polarity Protection Overload Current Protection Present Power Supply 12 - 48VDC, Redundant power Fault Output 1 Relay Output Power Consumption TBD Mechanical LED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental ***220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40°Cto 75°C	100/1000Base-FX	Modules. See ComNet data sheet "SFP Small Form-Factor Pluggable Modules*
Power G-pin Screw Terminal Block (including relay)	Concello	
Power Reserve Polarity Protection Present Overload Current Protection Present Power Supply 12 - 48VDC, Redundant power Fault Output 1 Relay Output Power Consumption TBD Mechanical LED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental MTBF >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40°Cto 75°C		
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Overload Current Protection Present Power Supply 12 - 48VDC, Redundant power Fault Output 1 Relay Output Power Consumption TBD Mechanical LED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 1.59 Metal Case Dimensions DIN Rail (35mm track) or Wall Mount Environmental MTBF >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40°Cto 75°C		To .
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Mechanical Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40'Cto 75'C	•	
LED Link/Activity/Speed, R.M., SYS, Alarm, Power 1, Power 2 Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental MTBF >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40'Cto 75'C	·	TBD
Case IP-30 Metal Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40°Cto 75°C	Mechanical	
Case Dimensions 2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm) Installation DIN Rail (35mm track) or Wall Mount Environmental MTBF >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40'Cto 75'C	LED	
Installation DIN Rail (35mm track) or Wall Mount Environmental MTBF >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40'Cto 75'C	Case	IP-30 Metal
Environmental MTBF >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40°Cto 75°C	Case Dimensions	2.91 x 4.13 x 5.98 in (7.4 x 10.5 x 15.2 cm)
MTBF >220,000 hours Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40°Cto 75°C	Installation	DIN Rail (35mm track) or Wall Mount
Operating Humidity 10% to 95% (Non-condensing) Operating Temperature -40°Cto 75°C	Environmental	
Operating Temperature -40'Cto 75'C	MTBF	>220,000 hours
	Operating Humidity	10% to 95% (Non-condensing)
Storage Temperature -40T-85T	Operating Temperature	-40'Cto 75'C
1 · · · · · · · · · · · · · · · · · · ·	Storage Temperature	-40T-85T