

Looking for Fiber Network Solutions ?



Multi-Service Platform

Metro Ethernet & FTTH

L2 Ethernet Access Switch

CWDM & DWDM

FOM & SDH Multiplexer

Intelligent Digital Video Server

Industrial **GbE** Switch & Converter

Serial Device Server

High Power **PoE** Switch

www.globacom.cl
www.globacom.ec
www.ctcu.com

OAM/IP in-band Management
In-Service Hot Swappable

Power Redundancy
Multi-Services

SNMP
Cascadable

8 & 20 Slots



FRM220-CH08 & FRM220-CH20
In-Band Managed Platform

Network Management (NMC Card)



FRM220A-CH20
Ethernet Aggregation Platform

Supports uplink Gigabit Ethernet Switch
(Aggregate Switch Card)

Features & Benefits

In-band management

FRM220 chassis solution supports in-band management to enable network administrators to easily monitor and configure both local and remote Ethernet modules without truck roll to save OPEX for operators.

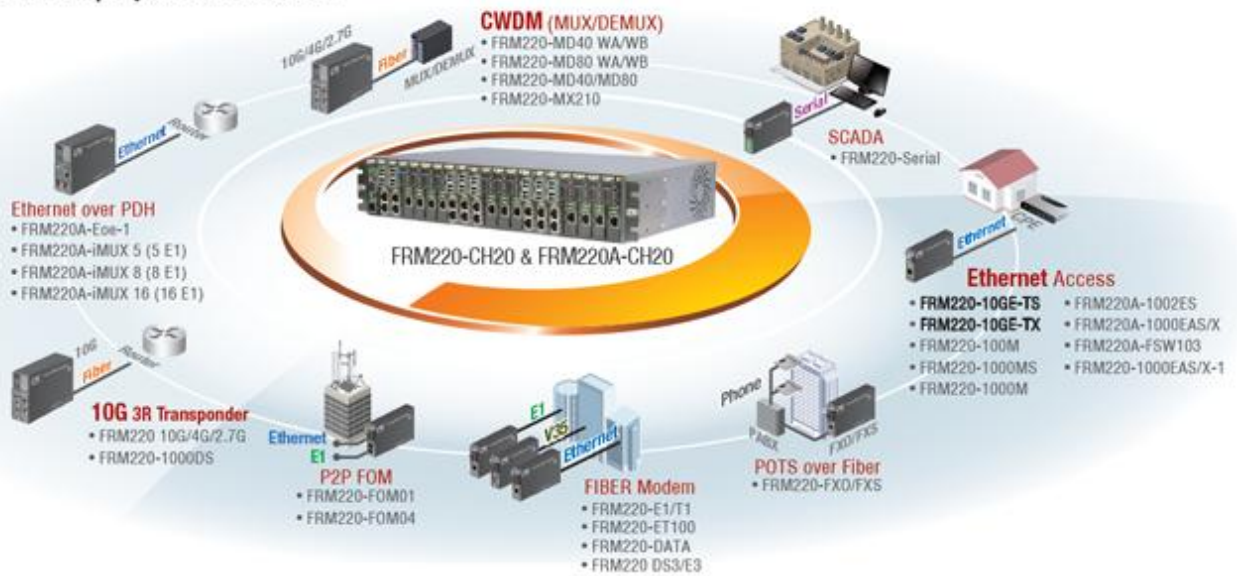
All modules and interface cards are hot swappable

In case any component module or interface card requires swapping, the maintenance engineer can perform in-service replacement without network connection interruption.

Cascaded connection for single IP management

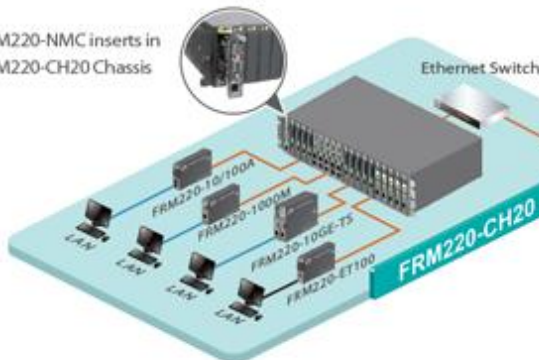
FRM220-CH20 supports cascaded connection of up to 10 sets maximum for single IP centralized management capability as well as flexible scalability.

Module Cards for Deployment Scenarios



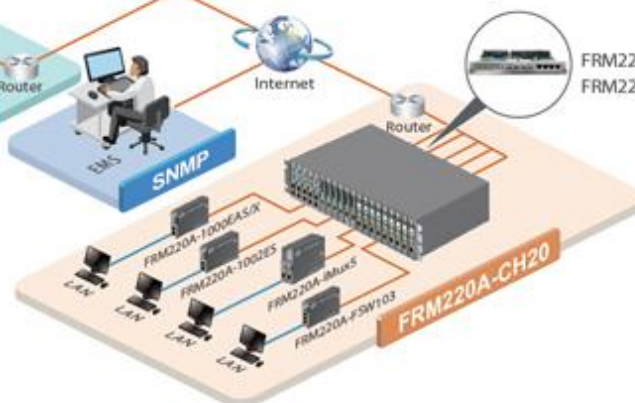
FRM220 & FRM220A Application

FRM220-NMC inserts in
FRM220-CH20 Chassis



Gigabit Ethernet Aggregation Built-in

FRM220A-GSW/SNMP inserts in
FRM220A-CH20 Chassis



Fully Ethernet OAM Enabled
24 GbE Ports+4 Ports 10G
MEF9/14/21 Compliant

IEEE 1588 V2
Hot Swappable
Synchronous Ethernet

Fully Ethernet OAM Enabled
2 GbE RJ45 + 2 GbE SFP
MEF9/14/21 Compliant



MSW-4424A & MSW-3424A

L2 Gigabit OAM Managed Fiber Access Switch



MSW-202

Ethernet Demarcation Device

CTC Union starts to unveil their Metro Ethernet product line and formally enters into the booming Metro Ethernet Market. The solutions cover Ethernet demarcation device, which MEF defines as UNI (User Network Interface) solution from subscriber end (UNI-C) to operator end (UNI-N). The products comply with MEF defined standards to guarantee the interoperability with other MEF certified equipment providers worldwide.

Benefits

Scalable as service demand grows

Scalable for the future bandwidth needs, geographic, applications, company expansions

Fully Ethernet OAM enabled

Enables Ethernet OAM features (IEEE802.3ah / IEEE802.1ag / ITU-T Y.1731) to rapidly detect and recover network fault and save OPEX for operators as well as increase customer satisfaction

MEF standards compliant solution

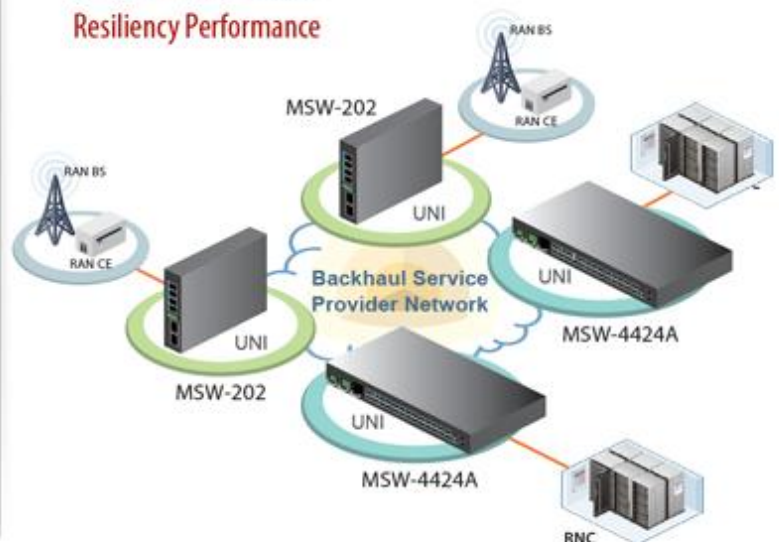
MEF 9/14/21 compliant product guarantees compatibility with other MEF certified equipment and reduces the risk and cost for Metro Ethernet network deployment of operators

Metro Ethernet Business Application



Mobile Backhaul Application

Carrier Ethernet with multiple class of service
Traffic Synchronization
Resiliency Performance



Access Site Solutions

24 GbE Ports + 4 Ports 10G
24+4 Ports GbE SFP
Fully Ethernet OAM Enable
MEF9/14/21 Compliant



MSW-4424A & MSW-3424A

L2 Gigabit OAM Managed
Fiber Access Switch

CPE Site Solutions

Web Smart OAM Managed
Cable Tray built-in
Ingress/Egress Bandwidth Control

5 GbE + 1 Port 100/100Base-X SFP
Web Smart OAM Managed
Cable Tray Built-in
DHCP auto Provisioning

Per Port Based NAT/Bridge
IEEE802.11n WLAN
RFC3261 SIP
Multi-Wan

OAM Managed Media Converter



FMC-100M &
FMC-1000MS

FTH4-100M &
FTH4-1000MS

SNMP Managed



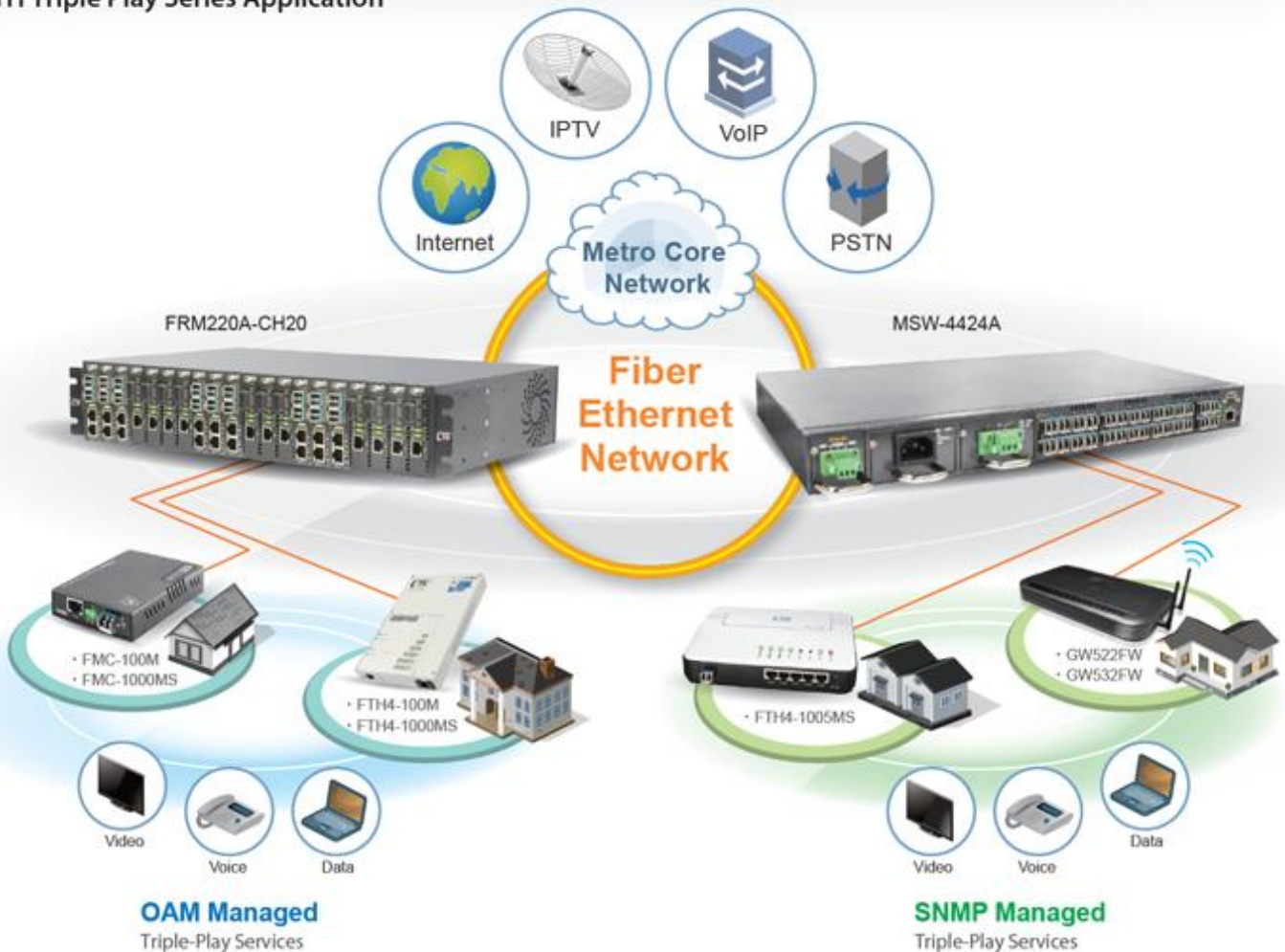
NEW
FTH4-1005MS
GbE Managed CPE Switch



GW522FW & GW532FW
FE/GbE Fiber IAD
Gateway with **WiFi**

With the advantages of high speed throughput and bandwidth scalable of fiber access technology, FTTH deployment has become the better choice for operators and service providers to provision their subscribers, bringing more home entertainment options such as high-speed internet access, toll quality voice service as well as high definition IPTV services. CTC Union, being a fiber total solution provider, unveils the FTTH active Ethernet solution for both **Access** and **CPE**.

FTTH Triple Play Series Application



2 Ports GbE over 2.5G Fiber
Fully Standalone Managed
Web, Telnet, SNMP Network Management

NEW



FRM220-MX210
GbE Ethernet Multiplexer

Compact Size
4ch/8ch CWDM Single Fiber MUX/DeMUX
4ch/8ch CWDM Dual Fiber MUX/DeMUX



FRM220-MD40 WA/WB
FRM220-MD80 WA/WB



FRM220-MD40
FRM220-MD80

FOM & SDH Multiplexer

16ch E1/T1, 8x 100/1000-T Ethernet
4x E1/T1 + 1x GbE



FMUX1000i
Ethernet Fiber Multiplexer

Compact NG-SDH
Support STM-1/4 ADM

Various Tributary Interface
(E1/T1, V.35, Ethernet, DS3/E3)



SDH04A
Next Generation SDH Multiplexer

FMUX1000i Application



Tester



HCT-SDH155

STM-E1 Analyzer and BER Tester

- Mixed and bulk payload generation and analysis from 64kbit/s to 155Mbit/s
- High-order mappings: STS-1/3C AU-3/AU-4



HCT-BERT/C

E1/Datacom BER Tester

- Color LCD display graphic mode
- Supports G.821/826, M.2100 BERT analysis



BTM10

PCM Transmission Analyzer

- E1 BERT Analysis: E1/T1 frame, code, CRC, and BPV performance analysis and generator
- VF Access: Drop and Insert 8K voice; frequency generator



HCT-7000

Dual Port E1/Datacom Analyzer and BER Tester

- Protocols: Frame Relay, SS#7, X.25, PPP (Sync), V5.1, V5.2, ISDN-D, Sync (BSC), HDLC, SDLC, Async
- ASY NC terminal Emulation



OLS-200

Optical Light Source

- Large LCD display working wavelength status
- Single key change working wavelength Easy operation
- 10 minutes auto shutoff function



OTDR-30A

Optical Time Domain Reflectometer

- Dual Wavelength Capability (1310 & 1550 nm)
- Easy to use, no tedious learning process
- Fast test & color LCD displays all measurement information



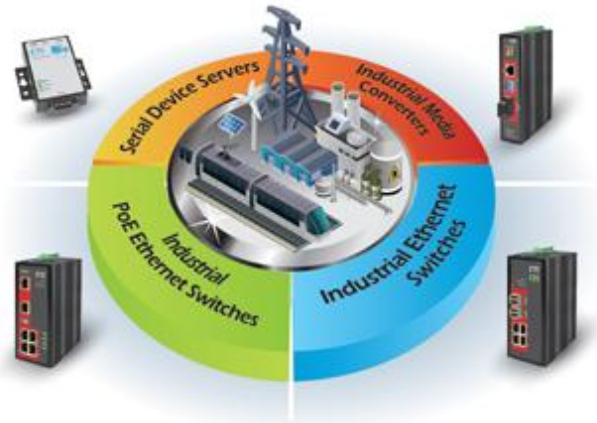
OPM-500A
OPM-500B

Optical Power Meter

- User self recalibration function
- Displays optical power in mw, dB and dBm
- 10 minutes auto shutoff function

Industrial Fiber Series

CTC Union offers a variety of industrial networking solutions, including Fast Ethernet and Gigabit Ethernet switches, copper to fiber media converters and serial interface to fiber converters as well as Power over Ethernet related products. CTC Union's industrial network products ensure efficient and reliable transmission performance by their hardened design, robust mechanical, dual and wide range power input, high EMS protection and long MTBF.



PoE Ethernet Switches



Industrial Ethernet Switches



Hardened GbE Switches



Ethernet Media Converters



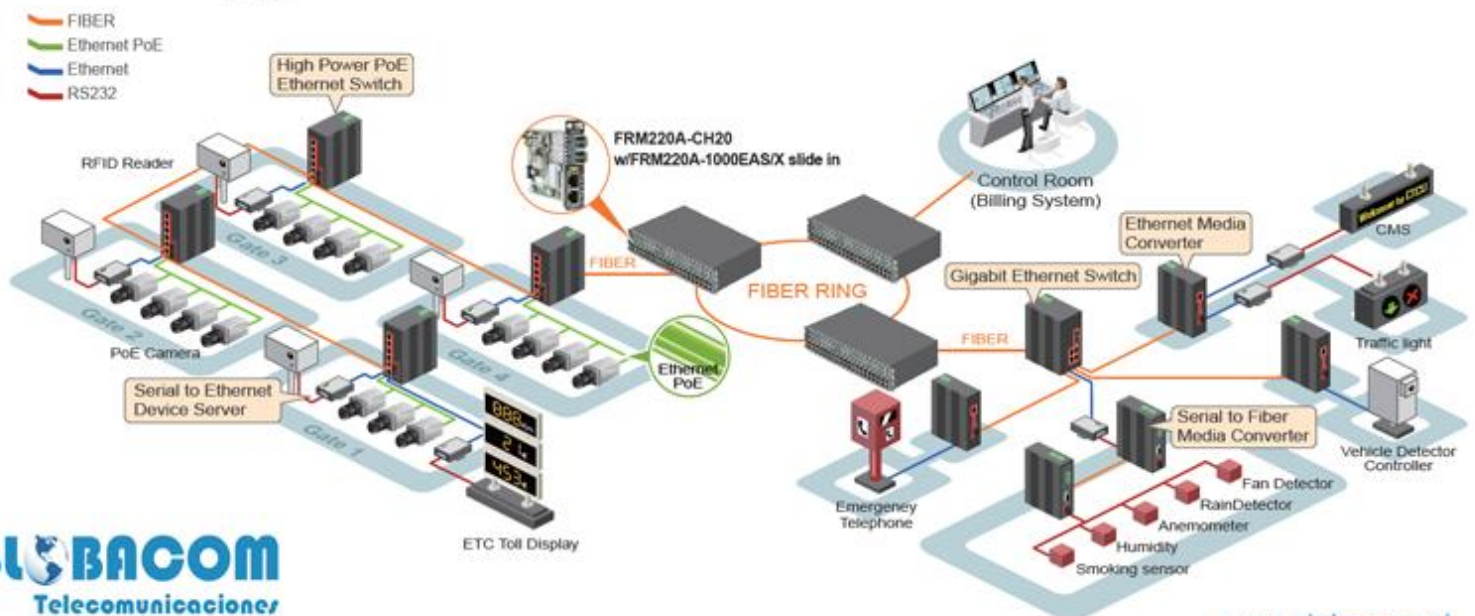
Serial Media Converters



Serial Device Servers



ITS and ETC Billing Application



GLOBALCOM
Telecomunicaciones

CTC
union

CTC UNION TECHNOLOGIES CO., LTD.

Sales Information : sales@ctcu.com Marketing Support : marketing@ctcu.com Technical Support : techsupport@ctcu.com

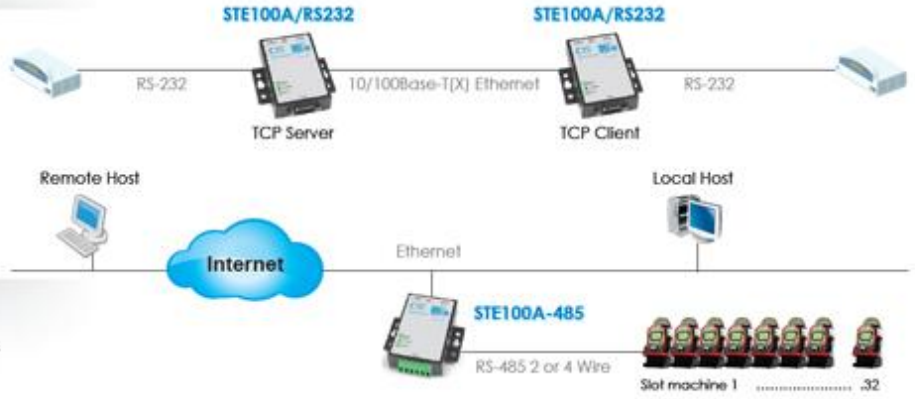
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Serial Device Servers

Compact Size
Serial over IP solutions
Supports RS-232/422/485
Up to 230.3kbps serial interface

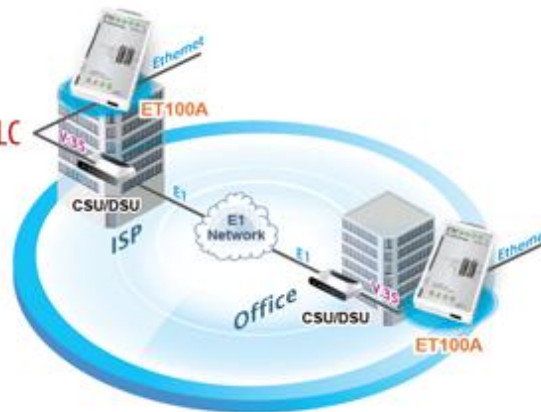


Ethernet Bridge

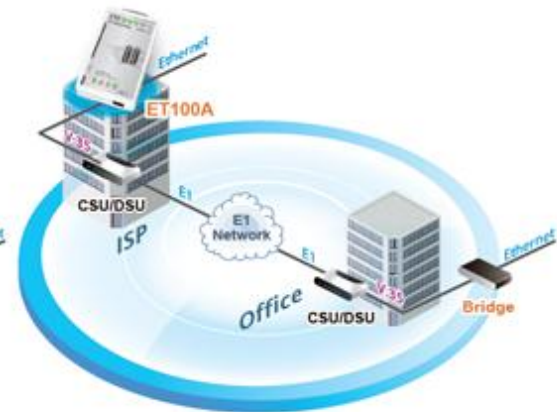
Compact Size
Various Data port option
(RS-232, RS-449, RS-530, V.35, X.21)
HDLC(ISO 13239), PPP, CISCO® HDLC



Ethernet to Data, Point to Point



Bridge Application



LAN Extender

2/4/8W, 2Base-TL EFM with 4x10/100Base-T(X)
IEEE802.3ah EFM OAM Switch
CO or CPE Device



EFM-10, EFM-20, EFM-40
Ethernet over G.SHDSL Technology

1-4 port 10/100Base-T(X) ATM Bridge/Router
w/Firewall
Data rate 2-wire up to 5.7Mbps and
4-wire up to 11.4Mbps



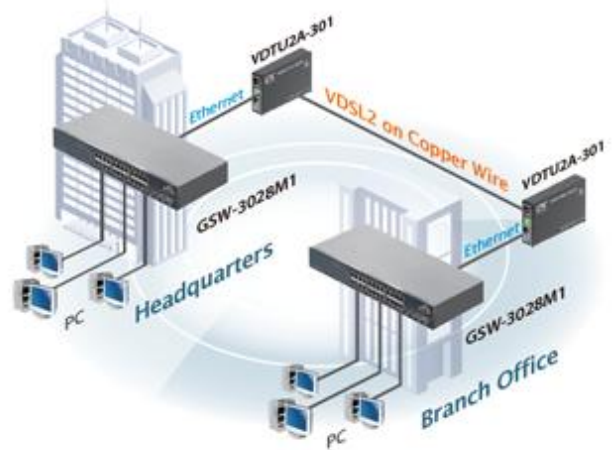
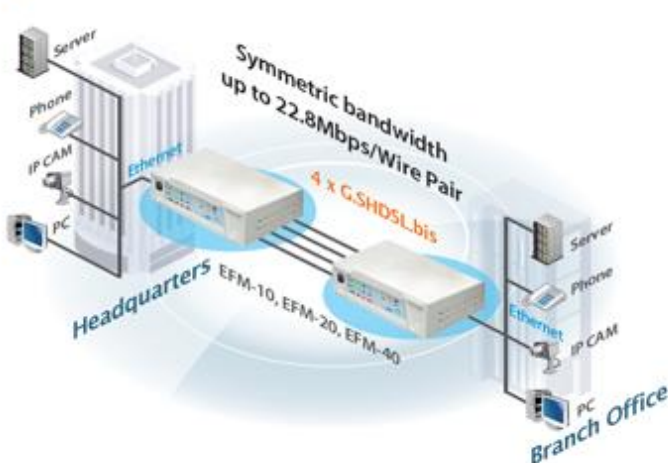
SHDTU03bf-ET10R(S) & SHDTU03baf-ET10RS
ATM over G.SHDSL Technology

VDSL LAN Extender
Data rate 100/75Mbps@330m; 10/10Mbps@1km
CO or CPE Device



VDTU2A-301
VDSL2 Technology

The CTC Union offers LAN extender options over copper wires based on EFM over SHDSL and VDSL2 technologies.



Video Access Systems

CTC Union offers a range of intelligent surveillance systems, from mobile NVR, intelligent DVS to integrated PoE Switches. CTC Union intelligent surveillance systems assure system reliability and performance in traffic control security, public security, business building security and community security.

NEW



DVS-8504E-FDS

4-ch D1 Digital Video Server

- D1 Resolution @30FPS(NTSC), @25FPS(PAL)
- 4 x Video Input & 4 x Audio Input
- RGB output



IDVS-01

1-ch H.264 Intelligent Digital Video Encoder

- Tripwire Detection
- Abandoned Objects Detection
- Intrusion Detection
- Video Loss Detection
- Virtual Fence Detection



DVS-8504E-H

4-ch H.264 Digital Video Encoder

- 4 Digital Input / 2 Digital Output Connections
- D1 Resolution @30FPS, 25FPS(PAL)
- Built-in Web Server for Management



NVR

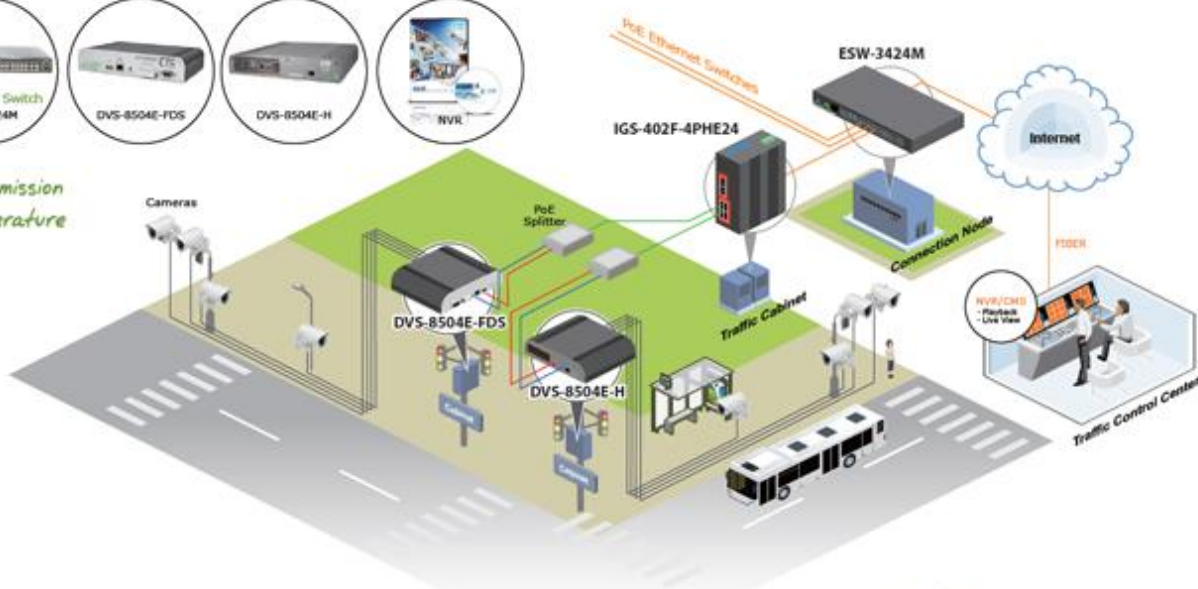
All-in-one IP Video Managed Software (NVR/CMS/IVS/360°)

- Automatic Disaster Recovery of Video Data.
- Instant Playback up to 512x Times with Video Search Function.
- Supports Multi-Brand IP Camera

Traffic Surveillance Application



- High Bandwidth Transmission
- -10°~75°C Wide Temperature
- High EMS Protection
- High Power PoE
- Scalable



Building Surveillance Application



- High Bandwidth Transmission
- Intelligent Application
- High EMS Protection
- High Power PoE
- Scalable

