DM705
Multiservice flexible multiplexer for access solutions

DM705 is a flexible multiservice multiplexer with access and transmission interfaces for different standards such as E1, V.35, SHDSL, FXS, FXO, Ethernet and SDH.

DATACOM

DM705

DM705 is a multiservice multiplexer with flexible interfaces and settings that can be adapted to the needs of each application.

It allows integrating voice and data traffic in low speeds and different networks. It aggregates functionalities of access multiplexer, traffic concentrator and telesupervision system. DM705 can work with both ring, linear and point-to-point topology.

Its capabilities include up to 257 cross-connect lines for data from any timeslot-level interface (64kbit/s) and CAS cross-connection, generated from the mapping of voice, optical and E1 interfaces.

DM705 has two chassis versions (2U and 4U) for 19' racks and different options for interface cards and control modules (CPU).

The control units (DM705-CPUxx module) are available in different cross-connect matrix capabilities, adapting to the size of each solution.

The interface cards offer options for voice interface ports (E&M, FXS, FXO), V.35, MBB, G.703, G.704 (electrical or optical E1), G.SHDSL, E3, STM-1 (electrical or optical), Ethernet and telesupervision.

Characteristics

CPU

- Allows for the use of 1 or 2 cards in redundant operation.
- Performs cross-connection in 64kbit/s timeslot level for data received from any interface and cross-connect of CAS (Channel Associated Signaling).
- Up to 257 matrix lines.

INTERFACES

- Totally modular allowing for different interfaces to be applied as needed.
- Support to voice interface ports (E&M, FXS, FXO), V.35, MBB, G.703, G.704 (electrical or optical E1), G.SHDSL, E3, STM-1 (electrical or optical), Ethernet and telesupervision.
- Hot-swap capability.

SYNCHRONIZATION SOURCES

- Internal clock generated by Mux.
- 2048kHz external clock with connection through the BNC input in the CPU card.
- Interface-recovered clock for interfaces STM-1, E3, E1, G.SHDSL and V.35.

MANAGEMENT

- Comprehensive centralized management is available via DmView, DATACOM's full FCAPS, Integrated Network and Element Management System. DmView allows for multiple user and segmented network management capability.

POWER SUPPLY

- Supports 93-250VAC or 36-72VDC inputs, with automatic selection (full range).
- Redundant operation.
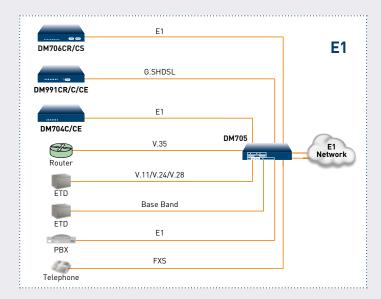- Hot-swappable.

EXTERNAL ALARMS

- Three external alarm inputs and an output in the front panel of the DM705-CPU card.
- Dry contact inputs.
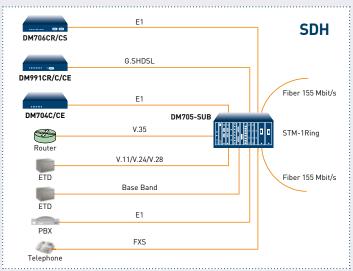- Normally Open / Normally Closed dry contact output.

Applications

Traffic aggregation

Traffic consolidation from different sub-used channels into one unique channel. Port data (DM705-E1, DM705-FO, DM705-DSL, DM705-MBB, DM705-V.35, G.703 64kbit/s, DM705-FXO / DM705-FXS / DM705-E&M, voice cards, RS232 and Ethernet) can be mapped into any timeslot from another port through a 64kbit/s cross-connection (Grooming), making it possible to choose another port to serve as an aggregate. DM705-CPU64 and DM705-CPU128 can also concentrate tributary in 2Mbit/s channels mapped to the STM-1 aggregate (DM705-HSxx).
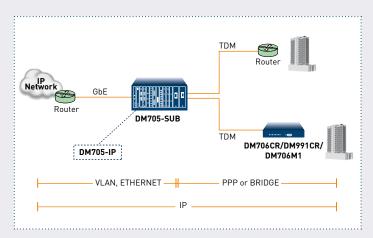
Modules

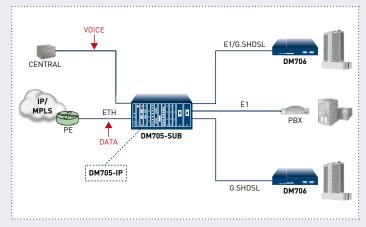| NAME	DESCRIPTION
DM705-CPU128	Control module with cross-connection matrix of 257 E1 lines
DM705-CPU64	Control module with cross-connection matrix of 61 E1 lines
DM705-CPU34	Control module with cross-connection matrix of 61 E1 lines
DM705-HS FO SFP	1x optical STM-1 interface with SFP module
DM705-HS FO	1x optical STM-1 interface
DM705-HS STM1E	1x electrical STM-1 interface
DM705-HS E3E	1x electrical E3 interface
DM705-E1-16	16x G.703/G.704 E1 interfaces
DM705-E1Q	4x G.703/G.704 E1 interfaces
DM705-E1	1x G.703/G.704 E1 interface
DM705-DSL8	8x 2 or 4-wire G.SHDSL interfaces
DM705-DSL2	2x 2-wire G.SHDSL interfaces
DM705-IP	2x Gigabit Ethernet interfaces to interconnect Ethernet-TDM networks
DM705-Switch	8x Fast Ethernet layer 2 switch interfaces

NAME	DESCRIPTION
DM705-FO2	2x optical E1 interfaces
DM705-FO	1x optical E1 interface
DM705-6V35	6x V.35 (V.36/V.11 – V.24/V.28) interfaces
DM705-V35D	2x V.35 (V.36/V.11 – V.24/V.28) interfaces
DM705-FXS10	10x voice interfaces – subscriber-side
DM705-FXS4	4x voice interfaces – subscriber-side
DM705-FXO10	10x voice interfaces – PBX-side
DM705-FXO4	4x voice interfaces – PBX-side
DM705-E&M	4x E&M interfaces
DM705-MBB	6x Base Band Modem interfaces
DM705-G64	6x codirectional G.703 interfaces
DM705-HK HW2	Telesupervision modules with 18x digital inputs (telesignals) 6x analog inputs (telemeasurements) – 4-20mA standard 4x digital outputs (telecommands) with dry contact

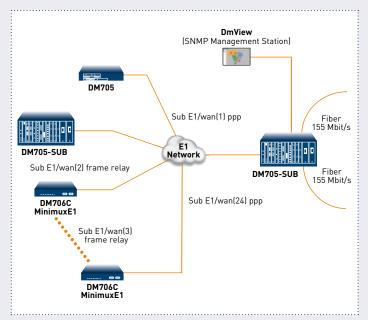# Integration of Metro Ethernet with TDM networks

Migrating the existing systems to Packet Switched Networks (PSN) requires integration solutions for those new networks and the Time-division multiplexing (TDM) legacy networks.

DM705-IP card offers conversion of existing link protocol in TDM channels (both PPP and Bridge Nx 64bit/s) for Ethernet, optimizing integration with Metro Ethernet networks and TDM networks. In addition to that, it also offers QoS functionalities over CPEs connected to the DM705 in both PPP and Bridge Nx 64bit/s protocols.
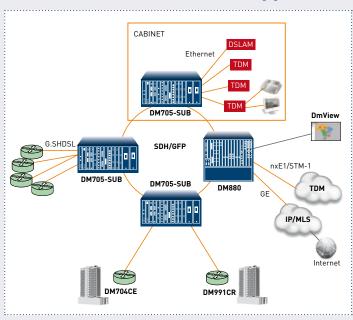

Concentration of management links

STM-1 GFP Application

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