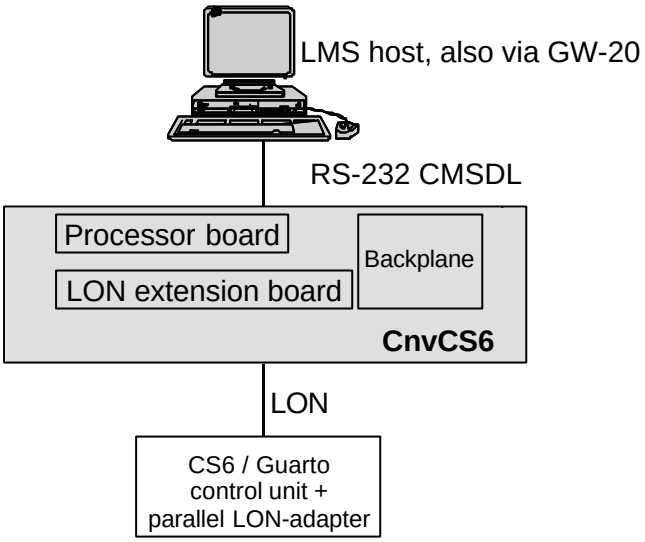
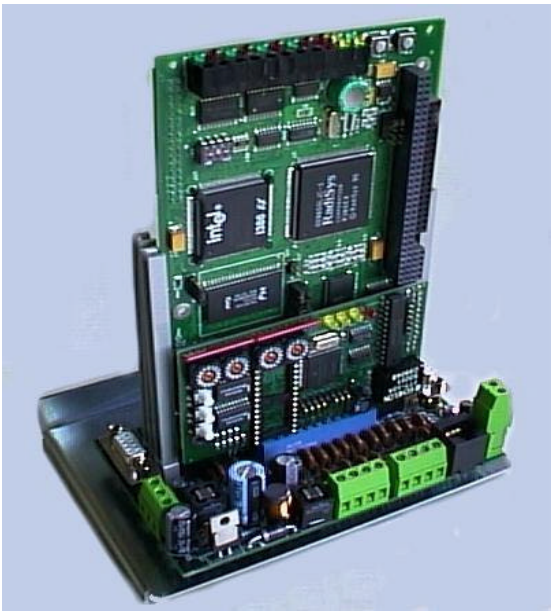
CS6-Guarto protocol converter for LMS CnvCS6





CnvCS6

The CnvCS6 acts as communication protocol converter for the CS6-Guarto intrusion control unit. It provides a conversion from a CS6-Guarto LON line to LMS/GW CMS-DL connection line on RS-232.

There are two possible configuration modes:

- **Connection via GW-20 gateway**: one Guarto control unit, equipped with internal parallel LON-adapter K31070 and CnvCS6, is connected to GW-20 on NetM-Pad; in this architecture, the CnvCS6 emulates a 2-level GW-21 gateway (see Fig. 1). Note that connection of the converter to GW21 is not possible.
- **Direct connection to LMSmodular host**: one Guarto control unit, equipped with internal parallel LON adapter K31070 and CnvCS6, is connected to the COM port of LMSmodular PC station; in this architecture, the CnvCS6 emulates the 1-level GW-21 gateway (see Fig. 2)

Features

- CD96800 communication board for local and distributed security applications. Based on i386 CPU equipped with embedded MS-DOS.
- Connection capability for one Guarto control unit and one GW-20/LMS host line.
- The CnvCS6 is composed by:
  Processor board with RS-232 ports, CnvCS6 utilizes only one port for the CMS-DL communication.
  LON extension board (piggy-backed daughter board) for connecting CS6-Guarto/LON-adapter.
  Back-plane board for external connections and power regulation.
- Processor board CD96800 equipped with RS-232 serial channels, Flash EPROM, RAM, RTC, local Echelon co-processor (watch-dog), configuration dip-switches, diagnostic LEDs.
- LON extension board CD98805 equipped with Neuron 3150 @ 10Mhz, FTT-10A transceiver, 8 bit subnet address and 8 bit node address configurable via rotary switches.
- *Back-plane board CD98812* allocating two full-modem, D-Sub 9-pin connectors and two screw connectors, power supply block for direct 12/24 Vdc voltage source.
- On the RS-232 communication line, two separate LEDs indicates the TX/RX status.
- Diagnostic LEDs for system vitality and failures on memory.
- CE label: CnvCS6 complies with European regulations about emissions and immunity.
- Easy configuration setting via switches, no configuration tool needed.
- CnvCS6 is supplied with a mounting bracket suitable to installation in a CS6 cabinet.
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Connection via GW-

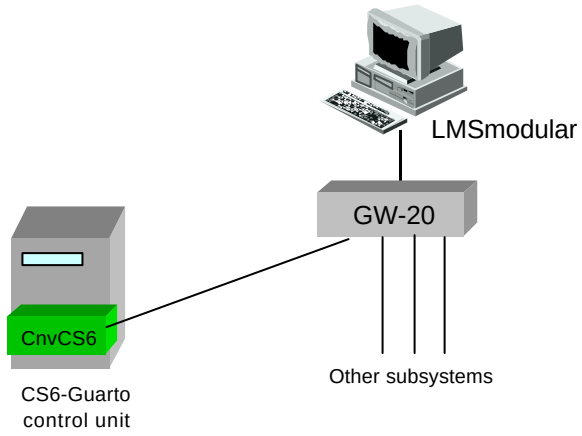

Fig. 1

Direct connection to LMS

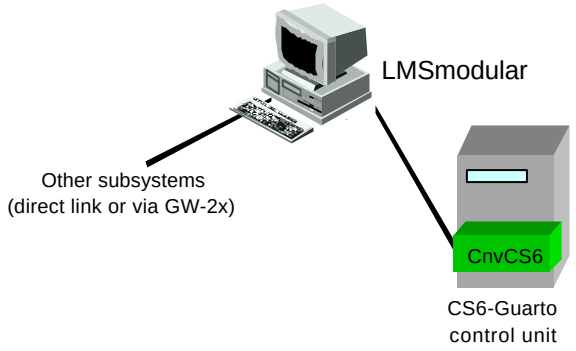

Fig. 2

Technical Data

Line to host	1 serial line (COM-3) to GW20 or LMS PC *connection to GW21 not possible*	9.600 bauds (fixed default setting)
Line to Guarto	CD98805 extension board manages the connection with the CS6/Guarto (LON channel, Single-Ended communication mode)	78K bauds
Connectors	D-Sub 9 pin on back-plane for connection to host. Screw connectors for connection to Guarto.	
Cables (Host/RS 232 signals)	Shielded cable, with twisted pairs max. distance between the CnvCS6 and host	min. section 0.5 mm^2 15 m
Cables (CS6/LON signals)	Twisted pair (10 turns/m), no shield required Max. distance between CnvCS6/extension board and CS6/LON-adapter (see more options and cable specifications in e1611)	min. section 0.8 mm^2 500 m (free topology)
Configuration	Switch SW1-4 on main board sets one of the two connection modes. Rotary switches on extension board set LON addresses.	K3I070
CS6 system requirements	Parallel LON-adapter (see also e1611)	
Power supply requirements	Input voltage (DC power supply) Max power consumption (CnvCS6 boards)	10 - 30 Vdc 4 W
Operating conditions	Temperature range Humidity	0 to 50 ° C 10 to 95 % non condensing
Dimensions:	CnvCS6 boards and backplane with mounting bracket for CS6	185 (H) x 155 (D) x 110 (W) mm
Weight:	CnvCS6 boards and backplane with mounting Bracket for CS6	700 gr.

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