CCO 30 - Coupling module
Valid for CCO 30 and CCO 30-2

Front panel CCO 30-2

LED "Disturbance"
LED "Active"
Fuse

Service-
interface SS1

Front panel-
interface SS0

CCO 30-2

SS1

10BaseT

10Base2

Battery
holder

10BaseT
Onet-
Interface

10Base2

Front panel
CCO 30-2

Front panel CCO 30

LED "Disturbance"
LED "Active"
Fuse

Service-
interface SS1

Front panel-
interface SS0

CCO 30

SS1

ETH0

ETH1

Battery
holder

10Base2
ETH0
AUI

10Base2
ETH1
AUI
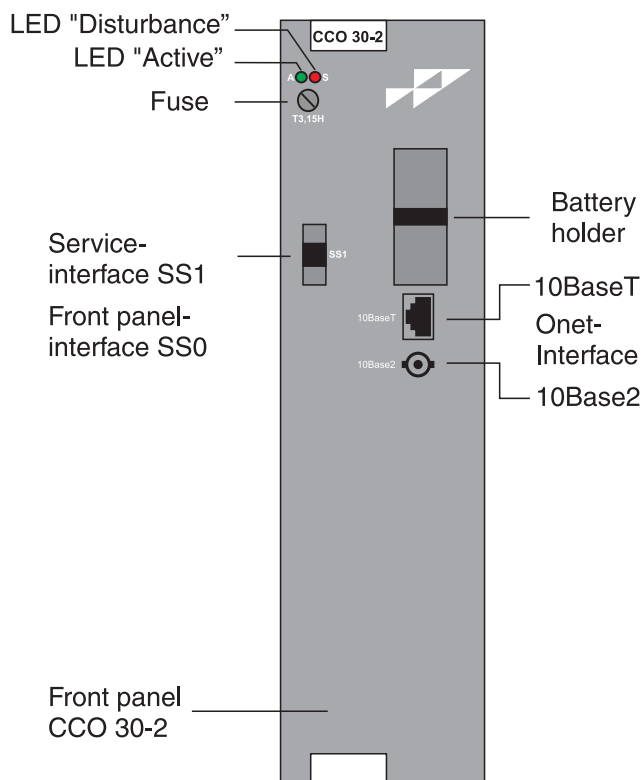
Front panel
CCO 30
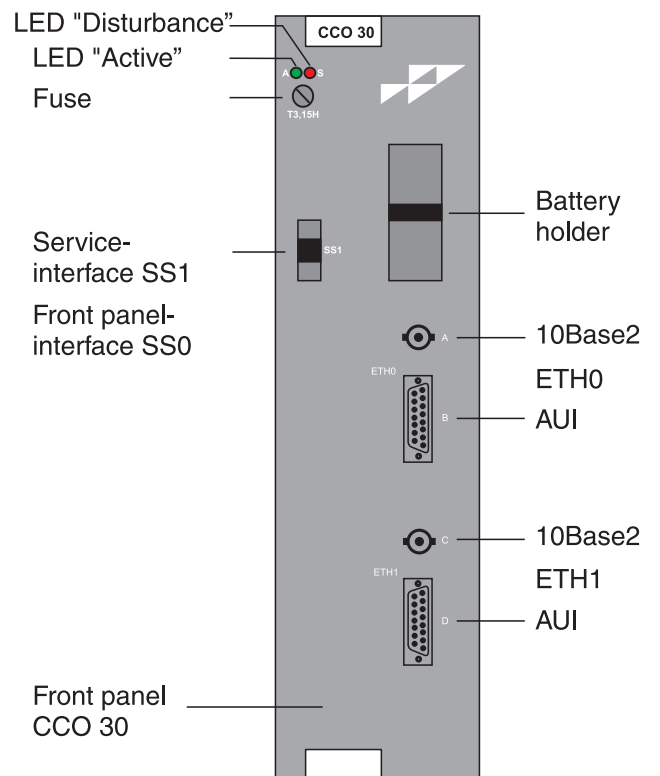
Technical Information:

- [Technical Information "CCO 30 - Coupling module" (TI 30/72-2290 EN)](#)

Features / Application

Important Notes:

- This Technical Information applies to the coupling modules **CCO 30 and CCO 30-2**. If the modules are identical, the description always refers to CCO 30, but it is also valid for CCO 30-2. If differences are existing, they will be described specifically for the respective module.

- The coupling module CCO 30-2 supersedes CCO 30.

- Regarding their functional behaviour, the two module types do not differ from each other. Both types are managed as CCO 30 in Composer and Maestro.

- Differences between both modules are existing in the following areas:
  - Onet interface
  - Performance data
  - Transmission rate of the redundancy link

- **Only modules of the same type may be set redundant**. If, nevertheless, a CCO 30-2 is plugged as redundancy partner to a CCO 30, the active module will issue an error message: "Redundancy link failed". The disturbance LED on the front panel indicates a partial disturbance. In that case, the redundancy link is operated via the Cnet (O). Balancing via the Cnet (O) is an alternate route in case of an error which is not designed for continuous operation. Because of the increased Cnet (O) load, the error must be eliminated immediately.

  Redundancy operation of different types is only allowed for the online exchange of modules. As soon as redundancy balancing of the modules has been effected, the defined redundancy operation must be restored.
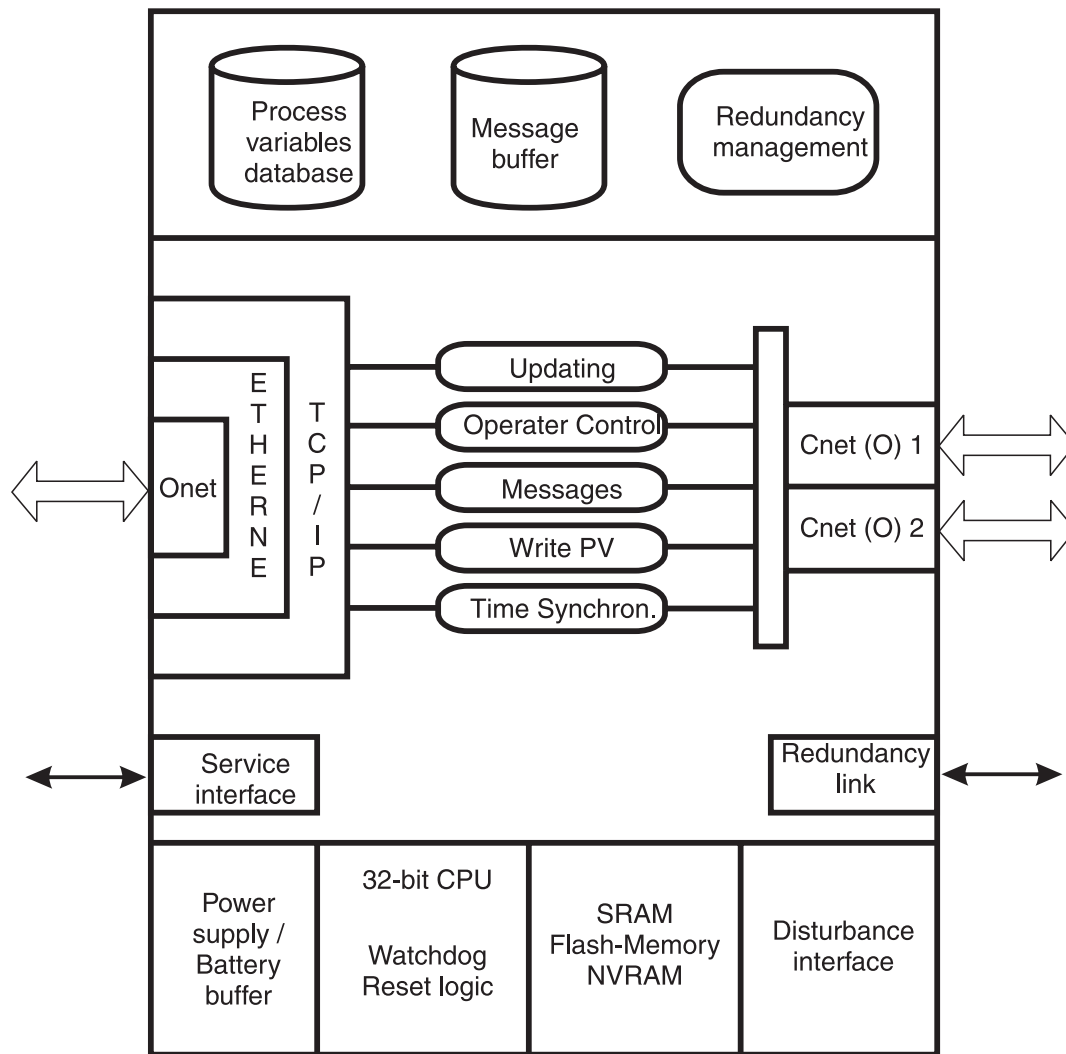
- Linking Melody to Maestro
- Updating process variables
- Processing operator interventions
- Processing external logic control interventions
- Generating process messages
- Buffering messages from Melody and transfer to Maestro
- Time synchronization of the stations on the Onet
- Use of TCP/IP
- Onet interface based on Ethernet IEEE 802.3; 10 MBit/s:
    - 10Base2 and 10BaseT (RJ45) on CCO 30-2
    - 10Base2 and AUI on CCO 30
- 2 redundant Cnet (O) interfaces
- Process variables configurable:
    - 15,000 on CCO 30-2
    - 10,000 on CCO 30
- 4,000 messages buffered
- Module capable of redundant operation
- Module monitoring
- Failsafe data storage

Technical Data

Module data:

CPU:	32 bit with integral Floating Point Unit (FPU)
RAM:	8 MB, battery-buffered and parity-safeguarded
NVRAM:	8 KB, production and operating data
Flash Memory:	2 MB, operating system

Interfaces:

Onet:	Ethernet IEEE 802.3, 10 MBit/s accessible via front panel • 10Base2 and 10BaseT (RJ45) on CCO 30-2 • 10Base2 and AUI on CCO 30	
Cnet (O) 1:	Serial, 1 Mbd, redundant implementation accessible through the system socket on the rear	
Cnet (O) 2:	Serial, 1 Mbd, redundant implementation accessible through the system socket on the rear	
Service interface (SS1):	Plastic optical fibre interface accessible via the front panel (special plastic optical fibre cable needed for conversion to RS232, max. length 15 m)	
Redundancy link:	CCO 30 CCO 30-2	Serial, 250 KBd Serial, 1,5 MBd both accessible through the system socket on the rear
System socket:	64-pin multipoint plug meeting DIN 41 612 and pattern C64 on the rear of the module contains signal leads for Cnet (O) 1, Cnet (O) 2, redundancy link, power supply, slot coding, signalling outputs, malfunction output ST etc..	

Signalling:

Light emitting diode A (green):	Module active
Light emitting diode S (red):	Malfunction

Dimensions:

Height:	7 HU (G format)
Width:	16 TE

Power supply:

Supply voltage:	U_V=+20...+33 V
Permissible overvoltage:	35 V (for t=1 s) 45 V (for t=10 ms)
Fuses:	Fusible insert 5 * 20 M 3.15 E or T 3.15 H
Current consumption:	I_{NOM}=0.8 A at U_V=24 V I_{MAX}=0.92 A at U_V=20 V
Power dissipation:	Max. 20 W
Ambient temperature:	0 ... 50 °C, (temperature for ventilation of the module in the rack)

Ordering Information

Catalog No.								Description	Note	Delivery time
72261-5-	9	2	8	0	1	5	3	CCO 30-2 Coupling module	see SPC, section 1	
72261-4-	0	7	8	8	7	5	3	CCO 30 Coupling module	see SPC, section 6	
Additional Order Information										
								Former System Packet (Indicate Version!)	BA-No. 601	
Necessary Accessories:										
37921-4-	0	3	3	9	1	1	1	Lithium Battery 3.6V for RAM-Buffer		

10/72-1.15-2 EN

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