Connectors Layout

In this chapter the subrack termination area is shown, together with the description of the signals conveyed at the connectors.

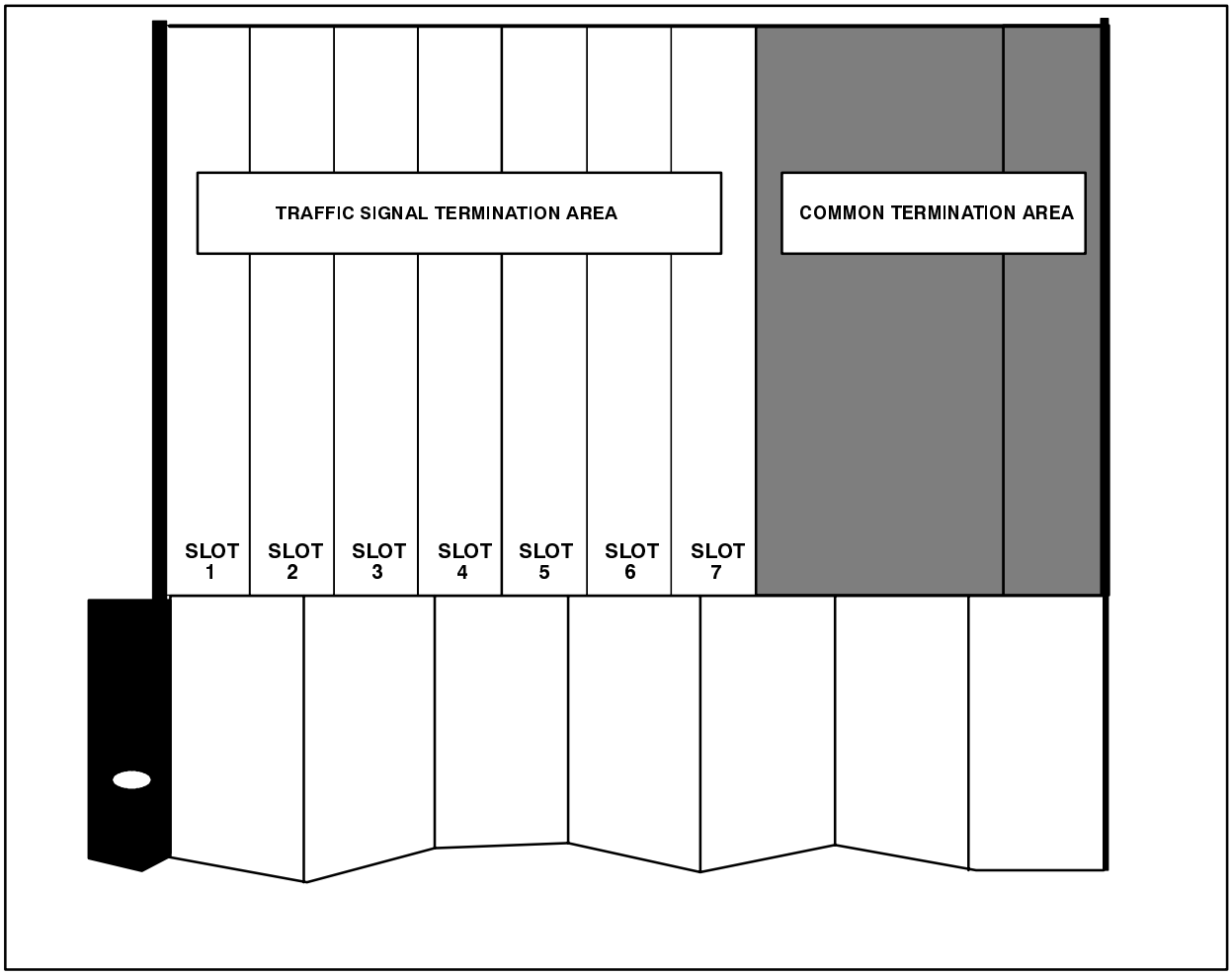


Fig. 2.3-1 *ADM-1 termination areas*

Two termination areas can be identified in the upper section of the sub-rack:

- *the left one dedicated to traffic signals*
- *the right one dedicated to common signals and power supply*

The following figures and tables describe:

- *Fig. 2.3-2 the different kinds of common signals and power supply connection panels*
- *Fig. 2.3-3 the different kinds of traffic signal connection panels*
- *Tab. 2.3-1 the meaning of the different connectors*

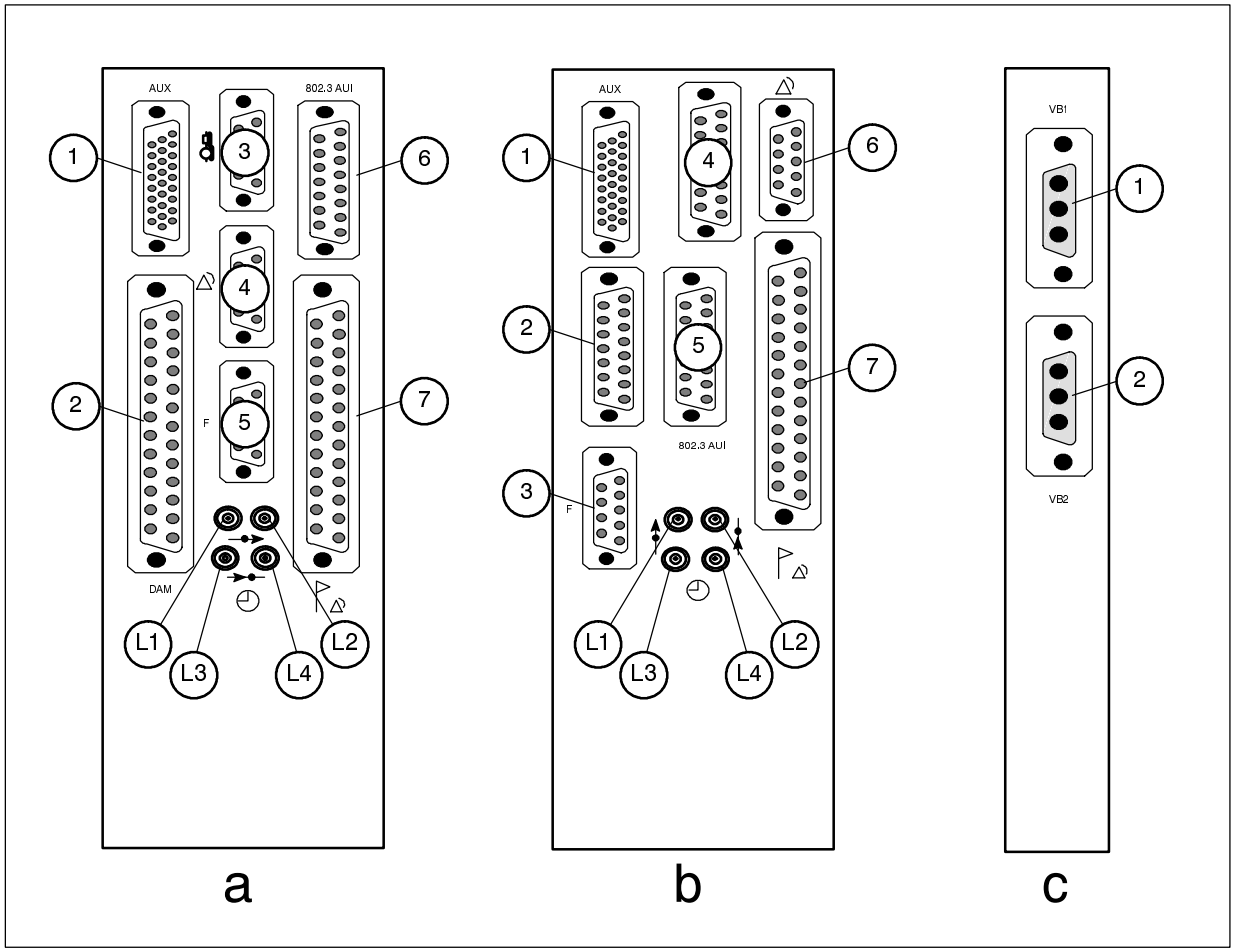


Fig. 2.3-2 *Common signals connection panels.*

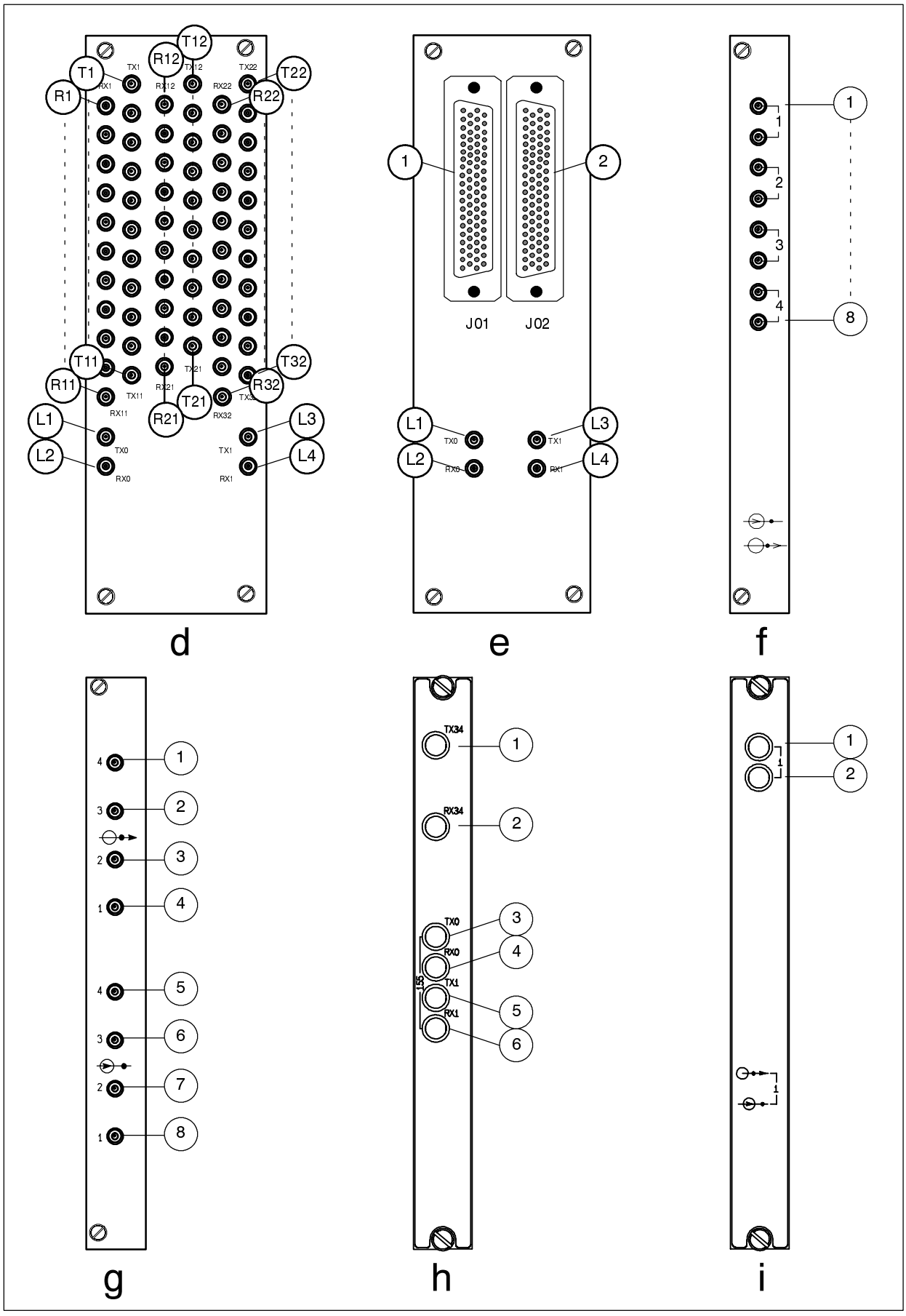


Fig. 2.3–3 *Traffic signals connection panels.*

For a detailed description of the correct positioning of connection panels, please refer to Section 1 ”Information for the System Engineer – Equipment Composition”.

Legend

a) Common Part Connection Unit –Type 2 (*)

b) Common Part Connection Unit – Type M (*)

c) Power Supply Connection Unit

d) 32x1.5/2Mbit/s – 75ohm + 2xSTM–1 Line Connection Unit

e) 32x1.5/2Mbit/s – 100/120ohm + 2xSTM–1 Line Connection Unit

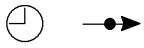
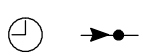
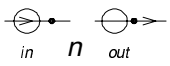
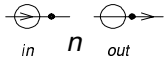
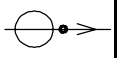
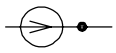
f) 4x140/155Mbit/s Connection Unit

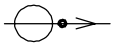
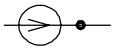
g) 4x34/45Mbit/s Connection Unit

h) 1x34Mbit/s + 2xSTM–1 Line Connection Unit

i) 1x140/155Mbit/s Connection Unit (for protection)

NOTE (*) ***For alternative use.***

Connector	Symbol	Signal	Connected to
a1 / b1	AUX	n x 64kbit/s Auxiliary signals	Auxiliary DDF
a3		EOW	Service telephone channel equipment
a4 / b6		Cabinet led alarms + input service voltage	Rack Alarm Unit
a5 / b3	F	F interface	Local Operator PC
a6 / b5	10_BASE_2 8 10_BASET	Q interface	NMC
a7 / b7		Input and output alarm criteria	Alarm distribution frame
a8 / a11		2048(kHz or kbit/s) output timing signal	External equipment to be synchronized
a9 / a10		2048(kHz or kbit/s) input timing signal	External synchronization equipment
b2	–	V11 interface for DLC management (MOST)	DLC
b4	–	V11 interface for DLC management (Communication)	DLC
b8 / b9		2048(kHz or kbit/s) output timing signal	External equipment to be synchronized
b11 / b10		2048(kHz or kbit/s) input timing signal	External synchronization equipment
c1	Vb1	Power supply	Battery 1
c2	Vb2	Power supply	Battery 2
d (R1–R32)	RX n	incoming 2Mbit/s stream (coax) **(*)**	DDF
d (T1–T32)	TX n	outgoing 2Mbit/s stream (coax) **(*)**	DDF
d L1 / d L3	TX n	outgoing STM–1 electrical line stream (L1 for Line 0, L3 for Line 1)	DDF
d L2 / d L4	RX n	incoming STM–1 electrical line stream (L2 for Line 0, L4 for Line 1)	DDF
e1	J01	incoming and outgoing 2Mbit/s stream (balanced) **(*)**	DDF
e2	J02	incoming and outgoing 2Mbit/s stream (balanced) **(*)**	DDF
f (1–4)		140/155Mbit/s stream	DDF
f (5–8)		STM–1 electrical line stream (3 for Line 1, 4 for Line 0)	DDF
g (2–4)	1 - 3 	34 or 45Mbit/s 75Ω output stream (1) to (3) Tx (out) ports **(**)**	DDF
g (6–8)	1 - 3 	34 or 45Mbit/s 75Ω input stream (1) to (3) Rx (in) ports **(**)**	DDF
h1	TX 34	outgoing 34Mbit/s stream	DDF
h1	TX 34	outgoing 34Mbit/s stream	DDF
h2	RX 34	incoming 34Mbit/s stream	DDF
h3	TX 0	outgoing STM–1 electrical line 0 stream	DDF

h4	RX 0	incoming STM–1 electrical line 0 stream	DDF
h5	TX 1	outgoing STM–1 electrical line 1 stream	DDF
h6	RX 1	incoming STM–1 electrical line 1 stream	DDF
i1		outgoing 140/155Mbit/s stream	DDF
i2		incoming 140/155Mbit/s stream	DDF

Tab. 2.3–1 *Signal description*

NOTE (*) Refer to paragraph "Connectors Pin–out" for the meaning of 2Mbit/s connectors, since it changes with position of the connection panel.

NOTE (**) The physical ports Tx and Rx of the channels 4 corresponding to the number (1) ***and*** (5) ***are not used by the current tributary units.***