

Communication modules

The communication module offer is dedicated to M171 Performance and M172 logic controllers (1).

The 8 optional modules provide specific connections:

- To fieldbuses, including:
 - CAN bus
 - Modbus TCP
 - Profibus
 - Modbus SL (RS 485)
 - BACnet MS/TP (B-AAC profile)
 - BACnet IP (B-AAC profile)
 - RS 232 serial link
 - LonWorks (FFT-10)
 - Konnex (KNX) via Schneider Electric' spaceLYnk gateway (1)
- To services, including:
 - Ethernet
 - WebVisu and remote download functions
- They are mounted by simply interlocking on the left-hand side of M171 Performance or M172 logic controllers (1). Only one communication module can be added to a logic controller.
- The communication module is powered by the controller.
- Each communication module has its own type of connector, adapted to the bus or communication network, see [page 39](#).
- They are compatible with either Performance or Optimized logic controllers

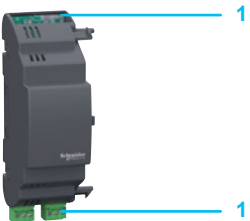
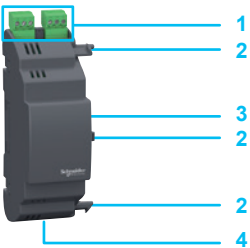
Logic controllers	Compatible Communication modules (reference)
M172 Optimized logic controllers (TM172O●●●●)	TM171ACAN, TM171AMB, TM171ARS485, TM171ARS232, TM171ALON, TM171AETH, TM171AETHRS485
M172 Performance logic controllers (TM172P●●●●)	TM171ACAN, TM171AMB, TM171ARS485, TM171ARS232, TM171ALON
M171 Optimize logic controllers (TM171O●●●●)	–
M171 Performance logic controllers (TM171P●●●●)	TM171ACAN, TM171AETH, TM171APBUS, TM171AMB, TM171ARS485, TM171ARS232, TM171AETHRS485, TM171ALON

TM171A●●● communication modules

- 1 Communication connector (2)
- 2 Locking device
- 3 Expansion connector to the controller
- 4 Clip for 35 mm/1.38 in rail mounting

(1) spaceLYnk offer: please consult the offer on its [website](#).

(2) The communication connector type depends on the communication modules, see [page 37](#).



Communication modules

35 mm/1.38 in rail mounting

Fieldbus, services access	Compatibility with logic controller	Communication port	Reference (1)	Weight kg/lb
■ CAN	M172 Optimized, M172 Performance, M171 Performance	■ 2 screw terminal blocks (1)	TM171ACAN	0.077/ 0.170
■ Modbus TCP ■ Ethernet ■ BACnet IP (B-AAC profile) ■ WebVisu and remote download functions	M171 Performance M172 Optimized	■ 1 RJ45	TM171AETH	0.077/ 0.170
■ Profibus	M171 Performance	■ 1 SUB-D 9	TM171APBUS	0.077/ 0.170
■ Modbus SL (RS485)	M172 Optimized, M172 Performance, M171 Performance	■ 2 screw terminal blocks (1)	TM171AMB	0.077/ 0.170
■ Modbus SL or BACnet MS/TP (B-AAC profile)	M172 Optimized, M172 Performance, M171 Performance	■ 2 screw terminal blocks (1)	TM171ARS485	0.077/ 0.170
■ RS 232 serial link ■ Relay output	M172 Optimized, M172 Performance, M171 Performance	■ 1 SUB-D 9 for RS 232 ■ 1 screw terminal block for relay output (1)	TM171ARS232	0.077/ 0.170
■ Modbus TCP and BACnet/IP ■ Modbus SL or BACnet MS/TP (B-AAC profile) ■ WebVisu and remote download functions ■ Ethernet	M171 Performance M172 Optimized	■ 1 RJ45 for Ethernet ■ 2 screw terminal blocks for RS485 (1)	TM171AETHRS485	0.077/ 0.170
■ LonWorks (FFT-10)	M172 Optimized, M172 Performance, M171 Performance	■ 1 screw terminal block for LON bus	TM171ALON	0.077/ 0.170

(1) Removable terminal blocks supplied with communication modules.



TM171ACAN



TM171AETH



TM171APBUS



TM171AMB



TM171ARS485



TM171ARS232



TM171AETHRS485



TM171ALON