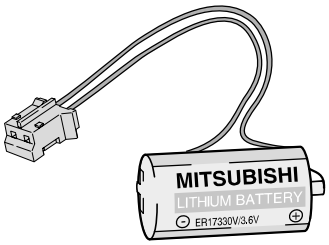
Accessories for the MELSEC modular series

■ Batteries

☑ iQ-R series ☑ System Q ☑ L series



Buffer battery

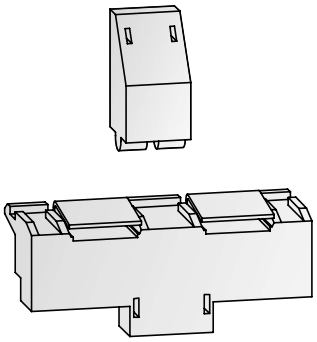
The lithium battery Q6BAT is the replacement for the battery integrated for data backup in any MELSEC modular series.

The batteries Q7BATN and Q8BAT offer a larger capacity then the Q6BAT. Because of the also larger dimensions, these batteries are mounted externally of the CPU module.

Specifications		Q6BAT	Q7BATN	Q7BATN-SET	Q8BAT	Q8BAT-SET
Battery	type	Replacement battery	Manganese dioxide lithium primary battery	Manganese dioxide lithium primary battery with holder	Replacement large-capacity battery module	Large-capacity battery module with CPU connection cable
Voltage	V DC	3.0				
Capacity	mAh	1800	6000		18000	
Dimensions	mm	16x30 (Ø x H)	17.5x34.5x48 (WxHxD)	27.4x34x60 (WxHxD)	55.2x98x87 (WxHxD)	55.2x98x87 (WxHxD) 1000 (cable)
Order information	Art. no.	130376	470796	470797	308746	296266

■ DIN rail mounting adapters

☑ iQ-R series ☑ System Q ☐ L series



Adapter for mounting base units on a DIN rail

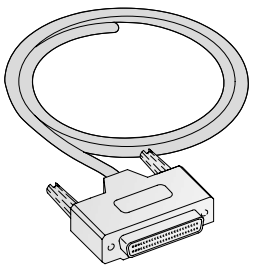
The mounting adapter is used for easy and quick mounting the MELSEC iQ-R and MELSEC System Q base units on a DIN rail.

The Q6DIN1A adapters for DIN rail mounting included with vibration-proofing brackets to improve resistance to vibration when mounting System Q base unit to the DIN rail.

Specifications		R6DIN1	Q6DIN1	Q6DIN2	Q6DIN3	Q6DIN1A
Application	iQ-R	Main and extension base units	RQ68B/RQ612B	RQ65B	—	RQ extension base units (with vibration-proofing bracket sets)
	System Q	—	Q38B/Q312B/ Q68B/Q612B	Q35B/Q65B	Q33B/Q63B	Q3☐B, Q5☐B, Q6☐B, Q38RB, Q68RB and Q65WRB
Dimensions (WxH)	mm	—	328x98	245x98	198x98	—
Order information	Art. no.	279532	129673	129674	136368	308747

■ Connection cables with connectors

☑ iQ-R series ☑ System Q ☑ L series



Assembled cables

The cables Q40CBL-☐M serve as connecting cables for I/O modules with 40-pin plug connection.

The cables are prefabricated, i.e. a 40-pin connector is already attached to one cable end.

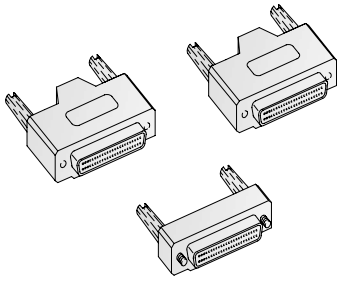
The cables FA-CBLQ75M☐☐ are ready made cables for the connection of the positioning modules QD75D1N/D2N/D4N or QD75P1N/P2N/P4N to a Mitsubishi Electric servo amplifier MR-J2-Super or MR-C.

Specifications		Q40CBL-3M	Q40CBL-5M	Q40CBL-10M	Q40CBL-15M	FA-CBLQ75M2J2-P	FA-CBLQ75M2C-P	FA-CBLQ75PM2J2	FA-CBLQ75PM2C
Application range		All MELSEC System Q modules with 40-pin connectors, like e.g. QX71, QX72, QY41P, QY42P, QX82(-S1)				QD75D1/D2/D4 for connection with MELSERVO MR-J2-S	QD75D1/D2/D4 for connection with MELSERVO MR-C	QD75P1/P2/P4 for connection with MELSERVO MR-J2-S	QD75P1/P2/P4 for connection with MELSERVO MR-C
Length	m	3.0	5.0	10.0	15.0	2.0			
Order information	Art. no.	140991	140997	158068	158069	147697	147698	147699	147700

Accessories for the MELSEC modular series

■ 37 and 40-pin connectors

☑ iQ-R series ☑ System Q ☑ L series



Connectors A6CON

These connectors are available in four different connection versions that differ in the way the leads are connected.

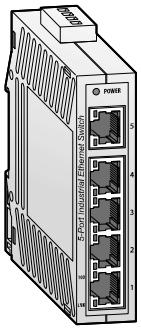
These connectors are required for all 32-point modules that connect to external signals via a 37-pin or 40-pin plug connection.

Whilst for the connectors A6CON1 to A6CON3 the cable is attached straight into the connector, in the case of the A6CON4 the lead is angled.

Specifications		A6CON1	A6CON2	A6CON3	A6CON4
Connector		Soldering type	Crimp-contact type	Pressure displacement type	Soldering type
Applicable wire size	mm^2	0.088–0.3	0.088–0.24	0.088 (flat cable)	0.088–0.3
Number of pins		40			
Order information	Art. no.	134139	134140	134141	146923

■ Industrial switching HUB

☑ iQ-R series ☑ System Q ☑ L series



By using DT125TX-B in Ethernet networks such as CC-Link IE Field Network, a star-type network can be constructed.

The Auto MDI/MDI-X function automatically distinguishes straight cables/cross cables, thus avoiding wiring problems due to misconnections. In addition, the auto negotiation function enables automatic recognition of transmission speed (10/100 Mbps) and transmission method (full duplex/half duplex).

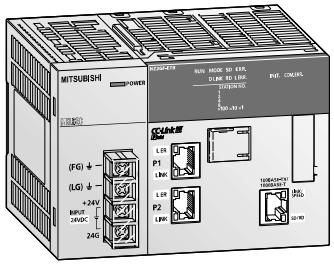
Special features:

- Supports CC-Link IE Field Network Basic
- Compatible with 10 Mbps/100 Mbps transmission speed
- Compact size unit with 5 ports
- Auto MDI/MDI-X
- Supports 10 V DC up to 30 V DC wide voltage-range. Two power supply inputs (redundant power supply) are possible
- Complies with UL/CE standards

Specifications		DT125TX-B
Communication standards		IEEE 802.3u 100BASE-TX, IEEE 802.3 10BASE-T-compliant
Transmission rate		100/10 Mbps (auto-recognition)
Number of effective ports		5
Order information	Art. no.	405705

■ Ethernet adapter module

☑ iQ-R series ☑ System Q ☑ L series



The Ethernet adapter module connects external devices on the Ethernet network to the CC-Link IE Field network.

Special features:

- Communication using SLMP
- Connection of MC protocol devices
- Connection to MELSOFT products or GOTs
- CC-Link IE Field network diagnostics
- Ethernet adapter diagnostics

Specifications		NZ2GF-ETB
Transmission rate:		100 Mbps/1 Gbps
Order information	Art. no.	253007

Accessories for the MELSEC modular series

■ Memory cards

☑ iQ-R series ☑ System Q ☑ L series



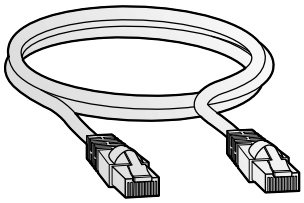
All MELSEC System Q CPUs have a permanently installed RAM. This memory can be extended with a variety of external memory cards.

Specifications		Q2MEM-1MBSN	Q2MEM-2MBSN	Q3MEM-4MBS	Q3MEM-4MBS-SET	Q3MEM-8MBS	Q3MEM-8MBS-SET
Application		MELSEC System Q					
Memory	type	SRAM					
Memory capacity		1 MB	2 MB	4 MB		8 MB	
Order information	Art. no.	408932	408933	217621	217622	217623	217624
Accessories		Q3MEM-CV: Memory card protective cover for the universal model QCPU (comes with Q3MEM-4MBS-SET/Q3MEM-8MBS-SET) Q3MEM-CV-H: Memory card protective cover for the high-performance model and redundant CPUs (comes with Q3MEM-4MBS-SET)					

Specifications		NZ1MEM-2GBSD	NZ1MEM-4GBSD	NZ1MEM-8GBSD	NZ1MEM-16GBSD
Application		iQ-R series (except R00CPU), L series, System Q: QnUDVCPU, Q24DHCCPU-V, Q24DHCCPU-VG, Q24DHCCPU-LS, Q26DHCCPU-LS			
Memory	type	SD	SDHC		
Memory capacity		2 GB	4 GB	8 GB	16 GB
Order information	Art. no.	284966	284967	284968	284969

■ Ethernet cables

☑ iQ-R series ☑ System Q ☑ L series



The Ethernet cables for CC-Link IE Field network with double shield have an outstanding shield performance with high resistance to external noise conforming to the 1000BASE-T standard.

- Cables have passed the CC-Link partner Association recommended product test.
- Conforming to the IEEE802.3 1000BASE-T standard
- Other lengths (up to 100 m) available on request

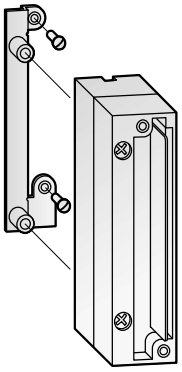
Item	Application	Cable length (m) *	Art. no.
SC-E5EW-S05M	Ethernet cable, CC-Link IE, category 5e or higher, (double shielded/STP) straight cable, for indoor use	0.5	295425
SC-E5EW-S1M		1	295426
SC-E5EW-S2M		2	486376
SC-E5EW-S3M		3	295427
SC-E5EW-S4M		4	486377
SC-E5EW-S5M		5	413184
SC-E5EW-S10M		10	413182
SC-E5EW-S25M		25	413183

* Please consult local Mitsubishi Electric representative to determine other lengths and working environments.

Accessories for the MELSEC modular series

■ ERNT – terminal block adapters and base rack adapters

☑ iQ-R series ☑ System Q ☑ L series



A/AnS series adapters -> MELSEC iQ-R series, System Q, L series

These adapters enable a PLC of the MELSEC A/AnS series to be easily replaced by a MELSEC iQ-R series, System Q or L series PLC.

The terminal block adapters enable existing wiring for modules of the MELSEC AnS series to be connected to modules of the MELSEC System Q, the iQ-R series or the L series. The base adapters enable a base unit of the MELSEC System Q, the iQ-R series or the L series to be fitted using the existing fixing holes of the MELSEC AnS series.

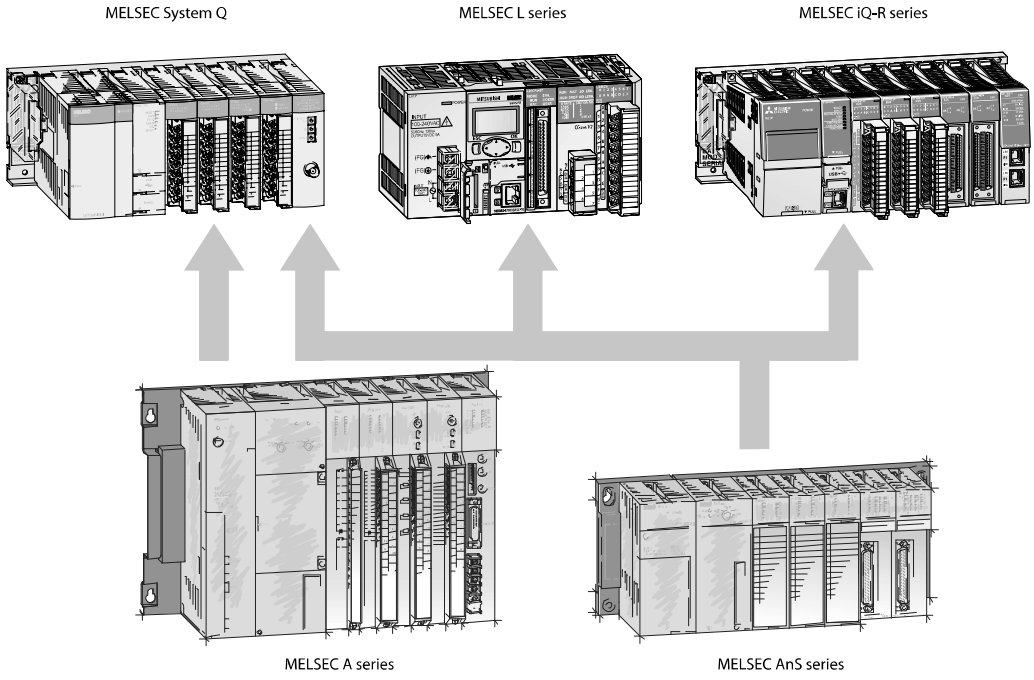
In addition, an Upgrade tool is available, which makes it easy to replace a PLC of the MELSEC A series with the MELSEC iQ-R series and to reuse existing sequence programs.

Please consult local Mitsubishi Electric representative when considering a transition.

Special features:

- No changes to wiring when replacing the PLC
- Time savings and fewer error sources
- Using the existing fixing holes for a base unit avoids mechanical work in the electrical cabinet.
- Permits reuse of sequence programs

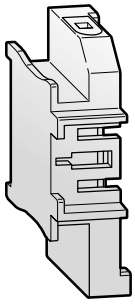
Transition overview



MELSEC iQ-R series

■ Extended SRAM cassettes and battery-less option cassette

☑ iQ-R series ☐ System Q ☐ L series



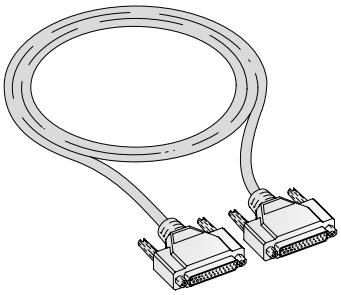
An optional SRAM cassette enables device/label memory to be increased and doubling up as a hardware security key.

The NZ1BLC cassette retains file register and latch device/label memory data without using a battery.

Specifications		NZ2MC-1MBS	NZ2MC-2MBS	NZ2MC-4MBS	NZ2MC-8MBS	NZ2MC-8MBSE	NZ2MC-16MBS	NZ1BLC
Memory	type	SRAM						Battery-less option memory cassette
Memory capacity		1 MB	2 MB	4 MB	8 MB		16 MB	—
Order information	Art. no.	283684	283683	283682	283583	285495	311472	339094

■ Connection cables

☑ iQ-R series ☐ System Q ☐ L series



Connection cable for extension units

These connection cables are used for connecting base units to the extension units. They have been cut to the correct length for each application.

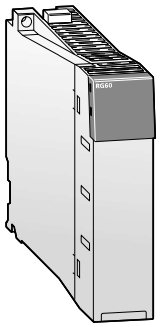
When the extension cables are used multiple, the overall distance of the cables should be within 20 m (13.2 m with RQ extension base).

Specifications		RC06B	RC12B	RC30B	RC50B
Application		RQ extension base units			
Length	m	0.6	1.2	3	5
Order information	Art. no.	279528	279529	279530	279521

MELSEC iQ-R series

■ Blank cover modules

☑ iQ-R series ☐ System Q ☐ L series

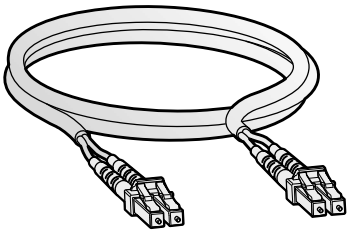


The blank cover module is used for dust prevention in the space where an I/O module is not mounted (especially the empty slot between modules).

Specifications		RG60	QG60
Application		I/O slots of main and extension base units	I/O slots of RQ extension base units
Occupied I/O points		16	
Weight	kg	0.07	
Dimensions (WxHxD)	mm	27.8x106x110	
Order information	Art. no.	279555	129853

■ Tracking cables

☑ iQ-R series ☐ System Q ☐ L series



Tracking cables for iQ-R redundant systems

These CC-Link IE controller network compatible optical fiber cables allow safe use in various environments, such as inside panels, indoors, outdoors, and reinforced type for outdoors.

Item	Application	Cable length (m) *	Art. no.
QG-G50-2C-5M-B-LL	GI dual optical fiber cable (multi mode) for CC-Link IE, Conforming standard: IEC60793-2-10 A1a.1, Operating temperature: -20–60° C	5	486672
QG-G50-2C-10M-B-LL		10	486673
QG-G50-2C-30M-B-LL		30	406823
QG-G50-2C-50M-B-LL		50	486674
QG-G50-2C-100M-B-LL		100	291603
QG-G50-2C-300M-B-LL		300	486675
QG-G50-2C-550M-B-LL		550	486676

* Please consult local Mitsubishi Electric representative to determine other lengths, working environments and connectors.