

## 10 Data Sheets

The latest data sheets can be downloaded from HIMA website at [www.hima.com](http://www.hima.com).  
The following lists and tables gives you an overview.

### 10.1 Assembly Kits

B 4234	System H41q-M 19 inches, 5 HU
B 4235	System H41q-MS 19 inches, 5 HU
B 4236-1	System H41q-H 19 inches, 5 HU
B 4236-2	System H41q-HR 19 inches, 5 HU
B 4237-1	System H41q-HS 19 inches, 5 HU
B 4237-2	System H41q-HRS 19 inches, 5 HU
B 5230	System H51q-M central rack 19 inches, 5 HU
B 5231	System H51q-MS central rack 19 inches, 5 HU
B 5232-1	System H51q-H central rack 19 inch, 5 HU
B 5232-2	System H51q-HR central rack 19 inches, 5 HU
B 5233-1	System H51q-HS central rack 19 inches, 5 HU
B 5233-2	System H51q-HRS central rack 19 inches, 5 HU
B 9302	for all systems H51q I/O subrack 19 inches, 4 HU
B 9361	for all systems H51q additional power supply 5 VDC, 19 inches, 5 HU

### 10.2 Data Connection Cables

BV 7002	H 7505 <--> printer with serial interface
BV 7032	Data cable of the I/O bus
BV 7040	H 7506 <--> H 41q/H51q-M/MS (single channel) H 7505 <--> H 7506

BV 7043	H 41q/51q <--> V.24 without additional power supply
BV 7044	V.24 <--> H 7505
BV 7045	HICA connection cable
BV 7046	H 7506 <--> H41q/H51q redundant
BV 7048	H 7505 <--> H41q/H51q redundant
BV 7049	H41q/H51q redundant <--> optical fibre
BV 7050	H41q/H51q single channel <--> optical fibre
BV 7051	H 7506 <--> optical fibre
BV 7052	H 7505 <--> HIMA systems single channel
BV 7053	HSR cable for redundant communication module F 8627 / F 8627 X
BV 7055	H 7506 <--> Edgeport/2i (USB)
BV 7201	H 7015A <--> H 7018 connection cable terminal module

### 10.3 Central Modules

F 8650E / F 8650X	H51q-MS, -HS, -HRS	SIL 3	1002D processor
F 8651E / F 8651X	H51q-M, -H, -HR		
F 8652E / F 8652X	H41q-MS, -HS, -HRS	SIL 3	1002D processor
F 8653E / F 8653X	H41q-M, -H, -HR		

### 10.4 Power Supplies

F 7126	Power supply 24 VDC / 5 VDC, for systems H51q
F 7130A	Power supply 24 VDC / 5 VDC, for systems H41q

### 10.5 Current Distribution Modules and Drawers

F 7132	4-channel power distribution L+ or EL+ and L-
F 7133	4-channel power distribution with fuse monitoring

### 10.6 Additional Devices for Power Supply

F 7131	Power supply monitoring with buffer batteries for H51q
H 7013	Power supply filter 24 VDC
H 7021	Power supply filter 48 VDC

The additional devices listed below are now described in the catalog "Cabinets and Power Supplies".

K 7212	Feeding and current distribution (with mains filter)
K 7213	Feeding and current distribution, up to 35 A
K 7214	Feeding and current distribution, up to 150 A
K 7215	Feeding and current distribution, up to 150 A, graphical display
K 7216	Feeding and current distribution, up to 63 A, for SELV and PELV
K 7901	Feeding and current distribution, up to 63 A, with two mains filters Z 6015
K 7915	Fuse distributor for lead fuse with certificate of Factory Mutual Research Corporation

### 10.7 Modules for I/O Bus Coupling

F 7553	Coupling module for H51q
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### 10.8 Communication Modules

F 8621A	H41q/51q coprocessor module
F 8627 /	Fast Ethernet communication
F 8627X	
F 8628 /	Profibus-DP communication
F 8628X	

### 10.9 Relays in Terminal Block Housing

H 4116	Relay in terminal block housing, safety-related, 4 A, SIL 2
H 4135	Relay in terminal block housing, safety-related, SIL 3
H 4136	Relay in terminal block housing, safety-related, operating voltage 48 VDC, SIL 3

### 10.10 Bus Connection Modules for HIBUS

H 7505	data signal converter V.24 / 20 mA, 2-wire / 4-wire (HIBUS)
H 7506	Bus terminal module for 2-wire buses

### 10.11 Accessories

H 7014	Electronic fuses
H 7015A	Terminal module
H 7016	Terminal module
H 7017	Shunt with low-pass filter
H 7018	Terminal module
H 7020	Terminal module
RS485 PCI	Interface card

## 10.12 Input and Output Modules

For the appertaining software function blocks refer to the description of the used operating system.

### 10.12.1 Digital Input Modules

Contact	Prox. switch	safety-related SIL 3	Line Control	(Ex)i	Counter	Space requirement	Type	Channels	Slot detection
•						4 SU	F 3221	16	-
•	•					4 SU	F 3222	8	-
•	•			•		4 SU	F 3224A	4	-
•		•				4 SU	F 3236	16	•
	•	•	•			4 SU	F 3237	8	•
	•	•	•	•		8 SU	F 3238	8	•
•	•	•				4 SU	F 3240	16	•
• 48 V		•				4 SU	F 3248	16	•
•					•	4 SU	F 5203	1	-
	•	•			•	4 SU	F 5220	2	•

Table 7: Digital Input Modules

SU = spacing units (width)

### 10.12.2 Analog Input Modules

0/4... 20 mA	Voltage	safety-related SIL 3	Pt 100	(Ex)i	Space requirement	Type	Channels	Slot detection
•	0...1/5/10 V	•			4 SU	F 6214	4	•
•	0...1/5/10 V		•		4 SU	F 6215	8	-
•	0...1/5/10 V		•		8 SU	F 6216A	8	-
•	0...5/10 V	•			4 SU	F 6217	8	•
	TC, -100...100 mV	•	•	•	4 SU	F 6220	8	•
•	0...1 V	•		•	4 SU	F 6221	8	•

Table 8: Analog Input Modules

TC = Thermocouple

SU = spacing units (width)

10.12.3 Digital Output Modules

24 VDC	> 24 V	safety-related SIL 3	Line Control	Load	Space requirement	Type	Channels	Slot detection
•				≤ 0.5 A	4 SU	F 3322	16	•
		only with F 6221 •		Transmitter supply (Ex)i ≤ 22 V, ≤ 60 mA	4 SU	F 3325	6	-
•		•		≤ 0.5 A	4 SU	F 3330	8	•
•		•	•	≤ 0.5 A	4 SU	F 3331	8	•
•				≤ 2 A	4 SU	F 3332	4	•
•		•		≤ 2 A	4 SU	F 3333	4	•
•		•	•	≤ 2 A	4 SU	F 3334	4	•
		•		(Ex)i ≤ 24 V, 12 mA	4 SU	F 3335	4	•
	•	•		≤ 0.5 A, 48 V	4 SU	F 3348	8	•
•	•	•	•	≤ 0.5 A, 24 V or 48 V	4 SU	F 3349	8	•
	•			≤ 4 A, ≤ 60 V	4 SU	F 3422	8	•
	•	•		≤ 4 A, ≤ 110 VDC, ≤ 250 VAC	4 SU	F 3430	4	•

Table 9: Digital Output Modules

SU = spacing units (width)

10.12.4 Analog Output Modules

24 VDC	> 24 V	safety-related SIL 3	Line Control	Load	Space requirement	Type	Channels	Slot detection
		•		0...20 mA	4 SU	F 6705	2	•
				0...20 mA	4 SU	F 6706	2	•

Table 10: Analog Output Modules

SU = spacing units (width)