



The heart of all Industrial Internet of Things applications.

- ▶ DIN Rail Controller (DRC) connects sensors, IoT modules and smart devices to the cloud
- ▶ Data filtering, visualization and analyses
- ▶ Computing power can be determined by the choice of computer module
- ▶ Has all common network and industrial interfaces
- ▶ Standard product enables rapid development of customer-specific IoT Gateways
- ▶ Can be expanded to include NB-IoT/LTE, EnOcean/RS485
- ▶ CE certification, UL certification

Technical Data

CPU details

CPU name	i.MX6UL(L) i.MX6 Solo i.MX6 Dual STM32MP15
CPU type	ARM Cortex-A7 ARM Cortex-A9 ARM Cortex-A9 Dual Cortex-A7 and Cortex-M4
CPU clock	up to 900 MHz 1.0 GHz 1.2 GHz up to 800 MHz and up to 209 MHz MHz

BSP	Linux (Debian, Yocto)
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Interfaces

Ethernet	2x 10 / 100 Mbit/s
USB host	2x High-speed
Serial interfaces	1x RS232 (Rx / Tx / Rts / Cts) isolated, 1x RS485 isolated
Micro SD	4-bit micro SD card
CAN	1x CAN (up to 1 Mbaud) on IN-RAIL-BUS, 1x CAN (up to 1 Mbaud) isolated

HMI

Display	OLED 1.3 inch (33.02 mm), 128 x 64 px, monochrome (white), 80 cd/m ² , 30.000 hrs MTBF
Buttons	5x capacitive touch
LEDs	4x status

Digital IO

Inputs	2x Opto coupler isolated px
Outputs	2x Open collector

Physical

Dimensions	107.8 x 89.8 x 53 mm
Power supply	24.0 VDC
Battery for RTC	CR2032 (optional)

Typ. power consumption	5.0 W
Operating temperature	0 to +50 °C
Storage temperature	0 to +50 °C
Certifications	EN 61131 EN 61000-6-2 EN 61000-6-3 EN 62368
IP protection	IP30
Extension modules	2G 3G 4G NB-IoT, EnOcean, LON, RS-485

Configurations

Item Number	Model (other configurations on request)	Product description
FD00043	DHCON-DRC02-SA-S-imx6S-R102-F409-E2U-CAN-IO-RS232-RS485-LON-OLED-P-C-01	DHCON, DRC02, stand alone, standard print, i.MX6 Solo, 1024 MByte, 4096 MByte eMMC, second ethernet port with USB, CAN, 2x inputs / 2x outputs, RS232, RS485, LON, 1.3" OLED display, PCAP touch, 0 to +50 °C, revision 01,
FD00044	DHCON-DRC02-SA-S-imx6S-R102-F409-E2U-CAN-IO-RS232-RS485-OLED-P-C-01	DHCON, DRC02, stand alone, standard print, i.MX6 Solo, 1024 MByte, 4096 MByte eMMC, second ethernet port with USB, CAN, 2x inputs / 2x outputs, RS232, RS485, 1.3" OLED display, PCAP touch, 0 to +50 °C, revision 01
FD00054	DHCON-DRC02-SA-S-STM32MP153C-R102-F819-E2C-CAN-IO-RS232-RS485-OLED-P-C-01	DHCON, DRC02, stand alone, standard print, STM32MP153C, 1024 MByte, 8192 MByte eMMC, second ethernet port with DHCOM, CAN, 2x inputs / 2x outputs, RS232, RS485, 1.3" OLED display, PCAP touch, 0 to +50 °C, revision 01

* Other configurations on request

What is the model number for ordering?

DHCON-TYPE-HO-PANEL[-CPU][-Rxxx][-Fxxxx][-RAIL][-E[x]x][-CAN][-IO][-RS232][-RS485][-LON][-W][BT][-LTE][-OLED][-T]-X-01

TYPE	DRC0x, DRC-X-[MODULE], DRC-C
HO	SA: stand alone, OF: open frame
PANEL	S: standard printing on panel, N: no printing on panel
X	C: commercial temperature range (0 °C to 50 °C), E: extended commercial temperature range (-20 °C to 70 °C)
01	Revision 01
Options	
[-CPU]	i.MX6S, i.MX6DL, i.MX6UL(L) and other DHCOMs
[-Rxxx]	RAM memory size in 10 MB steps: i.e. R006 = 64 MB, R012 = 128 MB
[-Fxxxx]	Flash memory size in 10 MB steps: i.e. F0006 = 64 MB, F0012 = 128 MB
[-RAIL]	CAN: In Rail Bus CAN, RS485: In Rail Bus RS485
[-E[x]x]	Ethernet [2]U: 2nd Ethernet port with USB, Ethernet [2]C: 2nd Ethernet port with DHCOM
Interfaces	[-CAN]: CAN port, [-IO]: 2 inputs, 2 outputs, [-RS232]: RS232 interface, [-RS485]: RS485 interface, [-LON]: LON interface, [-MBUS]: MBUS interface, [-W][BT]: WiFi and/or Bluetooth interface, [-LTE]: LTE interface
[-OLED]	1.3 inch OLED display
[-T]	P: PCAP touch