



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) |
|-----|-----------------------|

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][-Fxxx][-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 |
| [-Fxxx] | 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 |