MODULE 1 (TRACTION) (note 6) C1-CAN-REAR/DR4-01 C1-CAN-DR1/DR2-01 C1-CAN-FORE/DR1-01 C1-CAN-DR2/DR3-01 C1-CAN-DR3/DR4-01 Max: 1 Mbit (note 3) (note 7) **MAXON MOTOR EPOS2 70/11 375711 MAXON MOTOR EPOS2 70/11 375711** MAXON MOTOR EPOS2 70/11 375711 **MAXON MOTOR EPOS2 70/11 375711** CAN ID: 000 0001 (node 1) CAN ID: 000 0010 (node 2) CAN ID: 000 0011 (node 3) CAN ID: 000 0100 (node 4) Module 1 **Motor Driver 2 Motor Driver 4 Motor Driver 1 Motor Driver 3** Chassis CM-CAN-M1/M2-01 **MODULE 2 (POWER SUPPLY)** C2-CAN-FORE/REAR-01 Module 2 Chassis CM-CAN-M2/M3-01 **MODULE 3 (MANIPULATOR)** DB-9 **T-connector** (note 6) Max: 1 Mbit -PORT 2 PORT 1 C3-CAN-TCON/DR5-01 -CAN-FORE/TCON-01 C3-CAN-DR5/DR6-01 C3-CAN-DR6/DR7-01 Max: 1 Mbit Max: 1 Mbit C3-CAN-TCON/PC-01 connector **INTERFACE 1 INTERFACE 2** ADLQM67PC-2715QE - INTEL CORE 17 **MAXON MOTOR EPOS2 70/11 375711** MAXON MOTOR EPOS2 70/11 375711 **MAXON MOTOR EPOS2 70/11 375711** CAN ID: 000 0101 (node 5) CAN ID: 000 0110 (node 6) CAN ID: 000 0111 (node 7) Module 3 Control PC (PC 1) **Motor Driver 5 Motor Driver 6 Motor Driver 7** Chassis **MODULE 4 (S. PROC.)** DB-9 DB-9 **T-connector** PORT 2 PORT 1 (note 8) -CAN-FORE/TCON-01 SPECIAL CONN 10-pin (note 5) connector (note 9) Augmented (note 3) **INTERFACE 2 INTERFACE 1** detail C4-CAN-TCON/PC-01 (note 7) Max: 1 Mbit PCI/104-Express Signal processing PC (PC 2) Module 4 Chassis Notes: Legend: 1 – All DB-9 (male/female) connectors and CAN cables are shielded. 2 – The shield envelopment is interrupted near the connector of all CAN devices, with the exception of: a) J7 molex connectors DB-9 (Male) at the drivers; b) T-connectors; c) module rear interfaces. Connector shield (both male and DB-9 (Female) 3 - The shield envelopment of all outdoor cables (CM-CAN-MX/MX-01) must be interruped near the special connector of the female) next module front). For example: CM-CAN-M2/M3-01 shield is cutted off near the special connector of module 3 front interface. 4 – All DB-9 connectors at front interfaces are completely isolated from the module chassis. Special connector (Female) for Special connector (Male) for 5 – In each module rear interface, the shield of DB-9 connectors is connected to the module chassis. Then, the chassis of all module outside (see connector module outside (see Cable shield interruption modules are connected by a separate external wire (for more details, see "Grounding system" section and the Power Supply-G3 list) connector list) project). 6 – Each module is equipped with: a) one female special connector on the front interface (outside); b) one female DB-9 on the CAN Cable (1 twisted CABLE TAG (see "Cable List" in next chapter) **Cable Gland for** rear interface (inside the module); c) one cable gland pressing the external cable exiting the rear of this module towards the Cable shield pair + GND) module outside Maximum CAN speed front of the next module. 7 – This device has the CAN bus termination. A 120 Ω resistor should be placed in parallel with CAN-High and CAN-Low wires. In **Connector Molex** case of a CAN bus termination in a driver, it can be implemented by turning on the 8-pin of the DIP Switch. Molex Micro-Fit 3.0 4 poles Molex 8 – The T-connector implements: a) the connection of a PC in the CAN bus; b) a bypass of the CAN bus to future extensions. (430-25-0400) 9 – The 10-pin connector is the CAN interface of this PC model. Pinout: CAN-High (7), CAN-Low (2), GND (3), Shield (5).

10 – All DB-9 connections follow this pinout: CAN-High (pin 7), CAN-Low (pin 2), GND (pin 3), Shield (pin 5).