

M2M Control C350 Professional

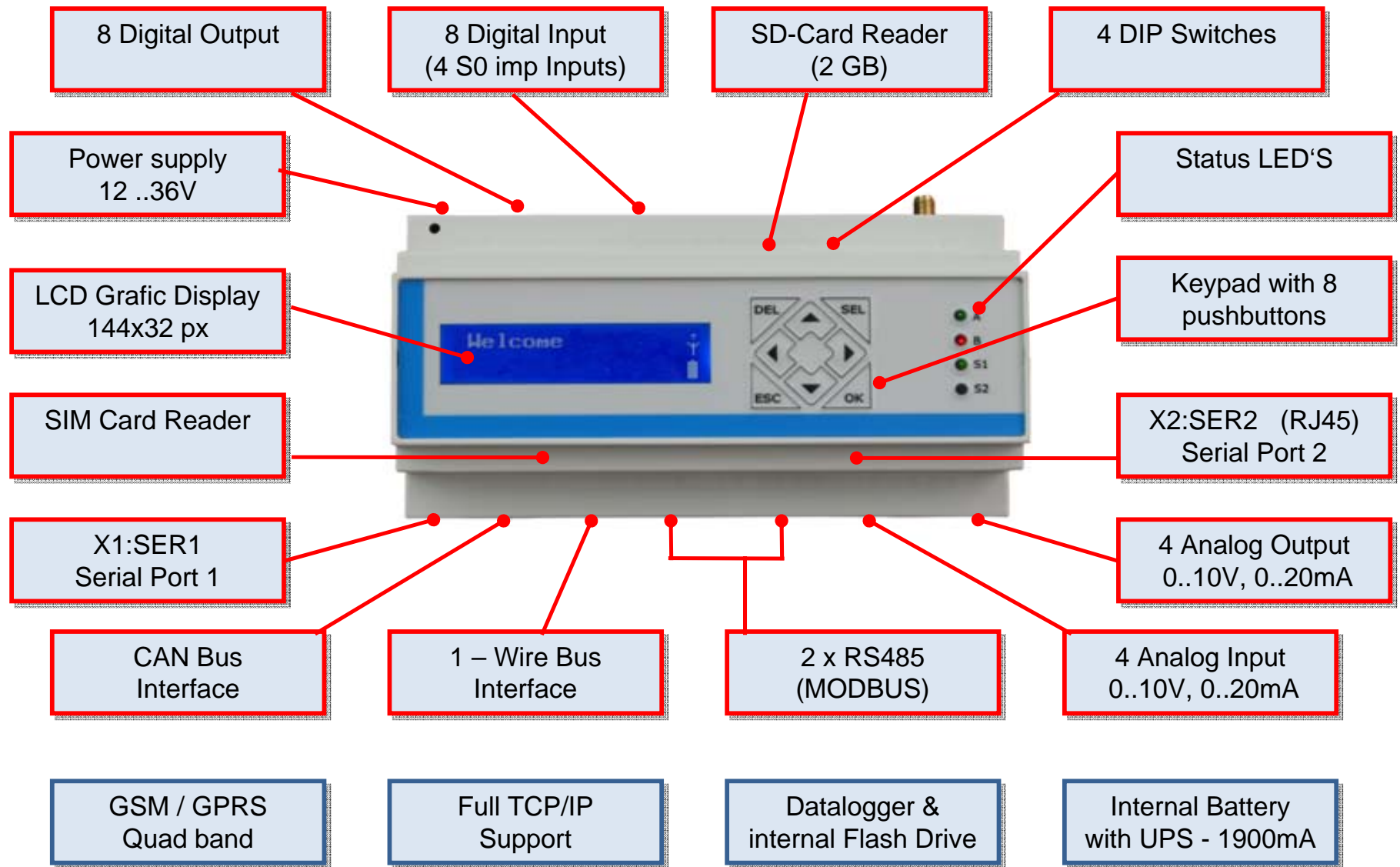


The C350 is a invaluable powerful M2M Platform !

- wide and universal I/O interface
digital and analog I/O, S0 ... and I/O extension modules
- versatile interfaces and powerful protocols
RS-232, RS-485, 1-wire, CAN or MODBUS
- open WAN connectivity
TCP/IP, GPRS/EDGE
- powerful 32-Bit ARM7 processor platform
- comprehensive memory resources
for data logging and application
- Powerful IEC 61131 programming environment
comprehensive function library, multitasking, firmware upload over the air (FOTA)
- GPRS Gateway support on firmware level
no need for an fixed IP address
- internal battery backup



M2M Control C350



M2M Control C350 – I/O Controller

8 Digital Inputs (opt. S0)

Low: -5 ..3V High: 5V..40V

8 Digital Outputs

max 36Vdc 1,5A

1–Wire Bus Interface



4 DIP Switches

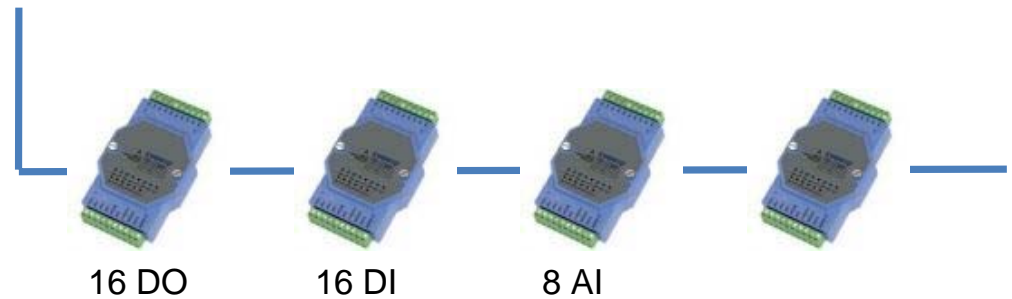
4 Analog Inputs

0..10V, 0..20mA (10 Bit)

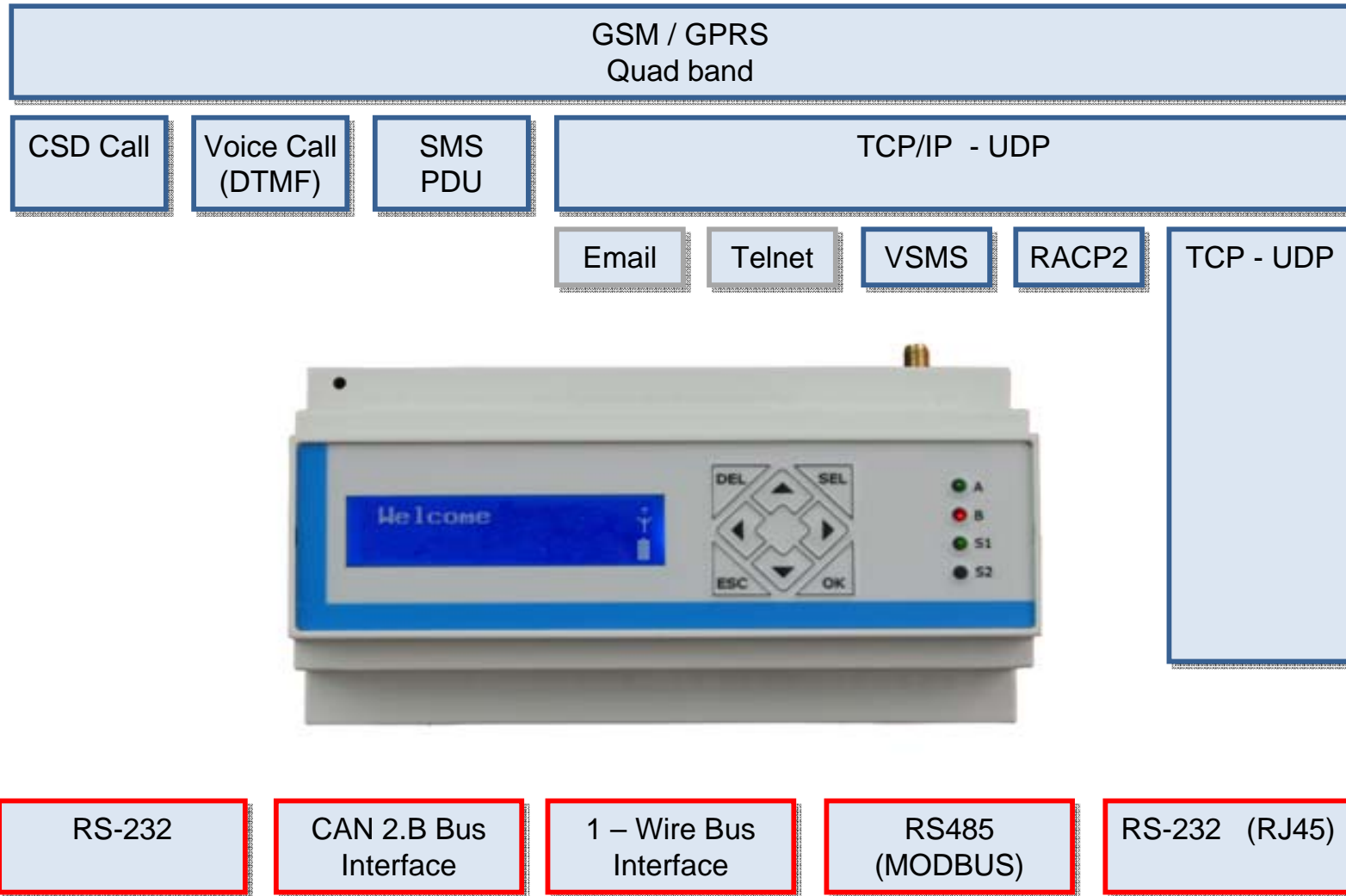
RS485 (MODBUS I/O)

4 Analog Outputs

0..10V, 0..20mA (10 Bit)



M2M Control C350 - Communication



M2M Control C350 – Data Logging & Memory



Data-Logging & Parameter

SD-Card with FAT Filesystem
(2 GB)

512 KB Dataflash
for data logger and
parameters
(optional 8 MB)

512 KB internal Flashdrive
with FAT Filesystem



internal Battery (1900mA)
UPS and energy management

Application

1 MB RAM
(opt. 2 MB)

2 MB Flash
for application and voice
(optional 8 MB)

8 KB FRAM
for fast memory access

M2M Control C350 - Programming Environment

- **IEC 61131-3 (structured Text)**
- standard programming language in automation and controls (-> PLC's)
Pascal like; easy to learn; flexible and powerful
- **Integrated Development Environment (IDE)**
PC based tool; includes : project management, editor, compiler, debugger, simulator
- **Syntax Highlighting Editor**
Code Wizard, extensive help functions
- **Debugger & Simulator**
- **Multi-Tasking**
- **Voice messages**
- **Comprehensive Documentation and Examples**
- **Remote access and firmware download over the air (FOTA)**

```
PROGRAM Send_SMS;
// The next code will only be executed once after the program starts
// Controls power to the GSM module

gsmPower(power := ON);

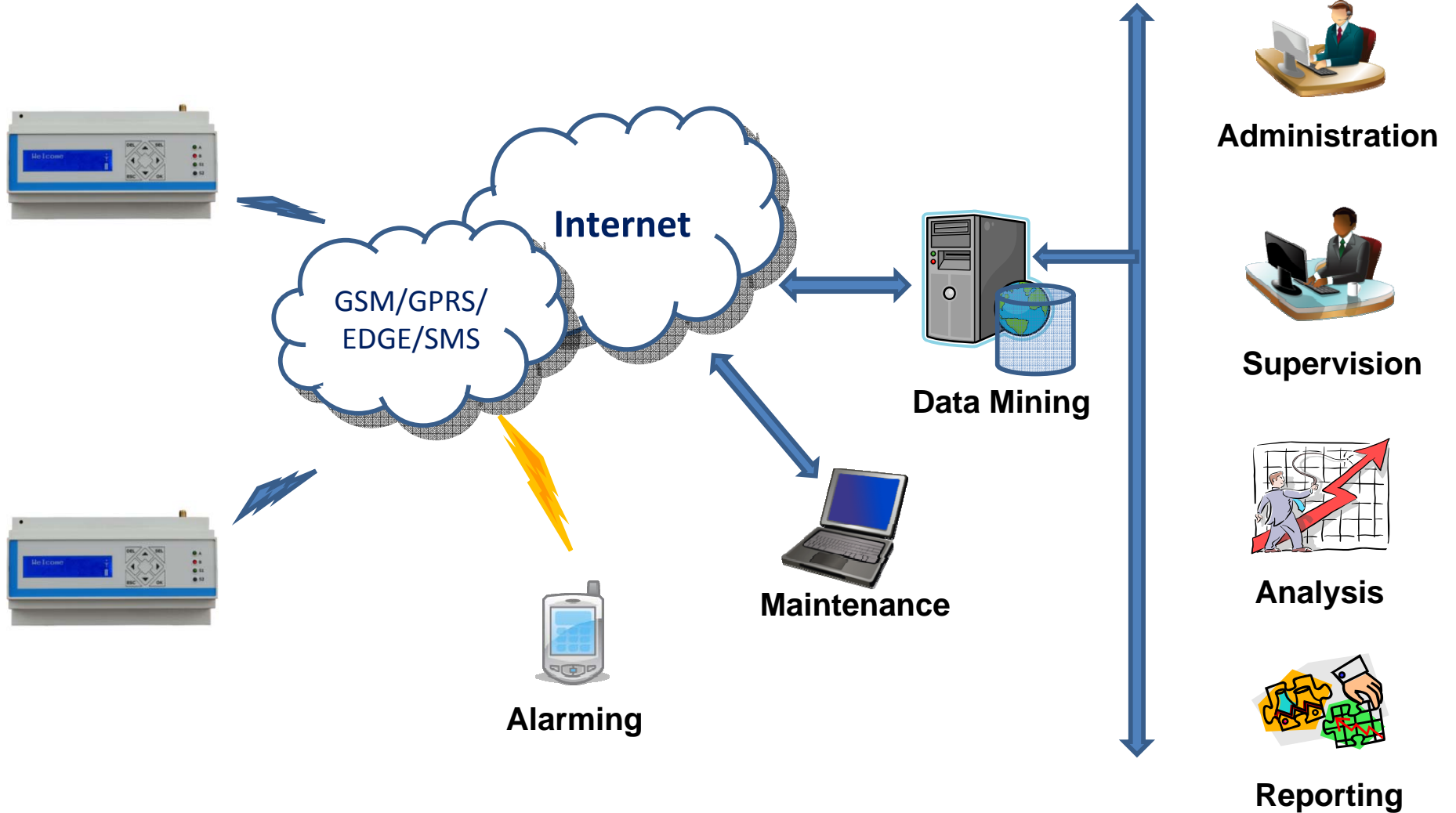
BEGIN
// Code from this point until END will be executed repeatedly
Connected := gsmConnected();

IF input THEN
    edge_no := edge_no + 1;
    // Send an SMS message
    message_to_send:=strFormat(format:="\1 leading edges detected",
        v1:=edge_no);
    gsmSendSMS(phonenummer:="+49 1234 5678",
        message:=message_to_send);
END_IF;
END;

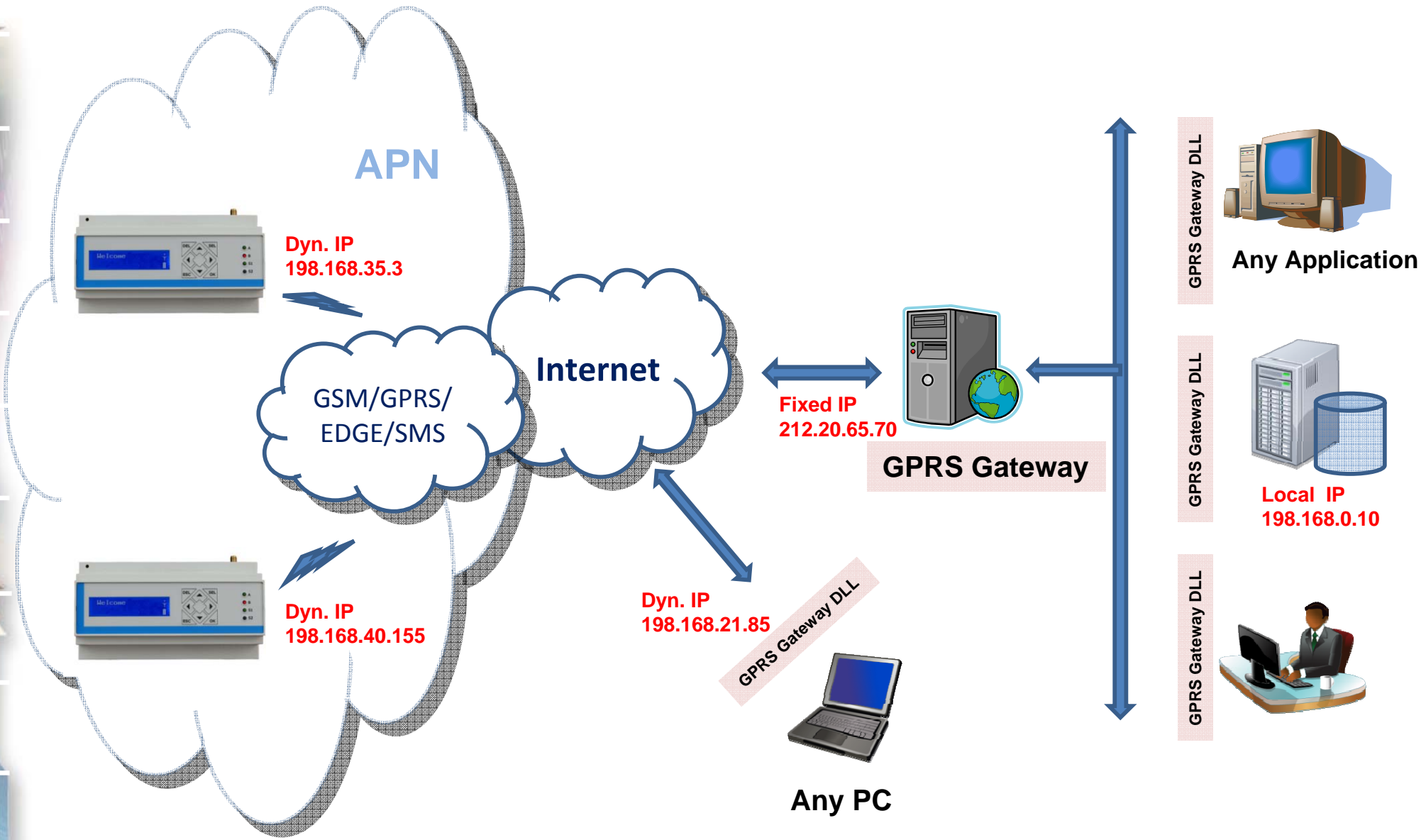
END_PROGRAM;
```

M2M Networking

M2M Control



M2M GPRS Gateway



M2M Control C350 - Accessories

M2M
Control

- **MODBUS I/O Modules**
divers I/O interfaces; fully transparent to the application; excellent value
- **VGA Camera**
taking color pictures in standard JPEG format
- **1-Wire Temperature Sensor**
excellent value
- **1-Wire ID Button Reader**
Identification; Access Control
- **Antennas**

