CIPHER LAB

Programmable
Data Terminal

520

- Powerful Networking: RS232, RS485, Ethernet
- Programmable in C and Basic
- Big Graphic Display and Back Lit Rubber Keys
- Flexible Digital I/O
- Ideal for time & attendance, production monitoring

520

520 Programmable Data Terminal

Specifications

Electrical

Voltage:	12V +/- 5% DC
Power Consumption:	0.5W maximum with LCD back light off and no external devices attached

Environmental

Temperature:	0º C~50º C (operating) / -20º C~70º C (storage)
Humidity:	20%~90% non-condensing (operating) / 10%~95% non-condensing (storage)
Environment:	Dust-proof

Physical

Weight:	1kg maximum including all batteries
Housing:	ABS plastic
Color:	Dark-Gray
Dimensions:	234mm (L) x 182mm (W) x 65mm (H) (including battery holder)

Indicator

Buzzer:	External Volume Control
External Speaker/Ear-phone:	Popular 8Ω type ear-phone and amplifier can be attached
LCD Display:	Support 128 x 64 or 240 x 64 STN type graphic LCD display with LED back-lit
LED:	2 LEDs

Memory

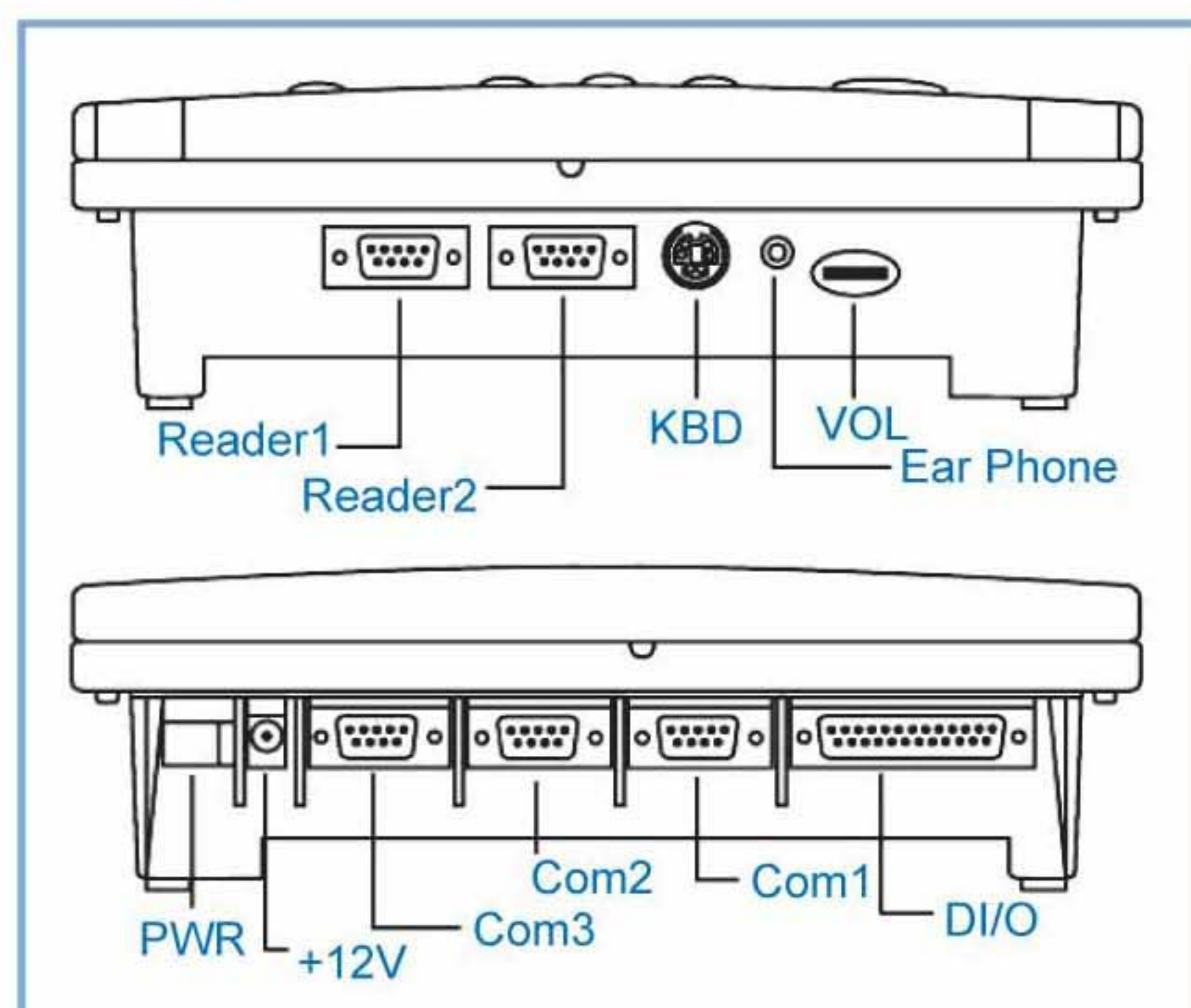|	
Program Memory:	512 KB flash memory
Data Memory:	128 KB on-board, Optional memory card from 512 KB to 2 MB available.
System Clock:	16 bit CPU running at 14.7456MHz

Communication Ports

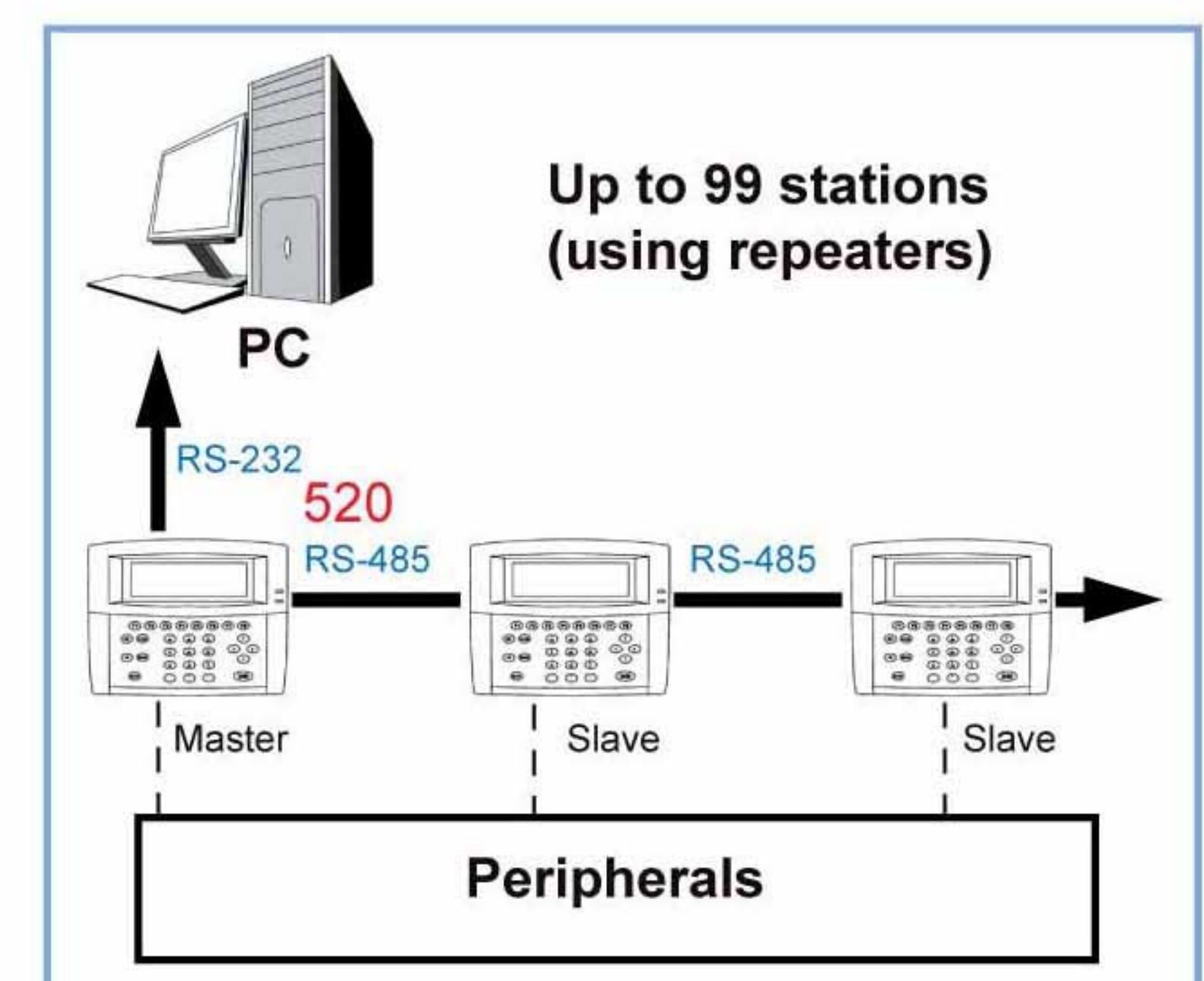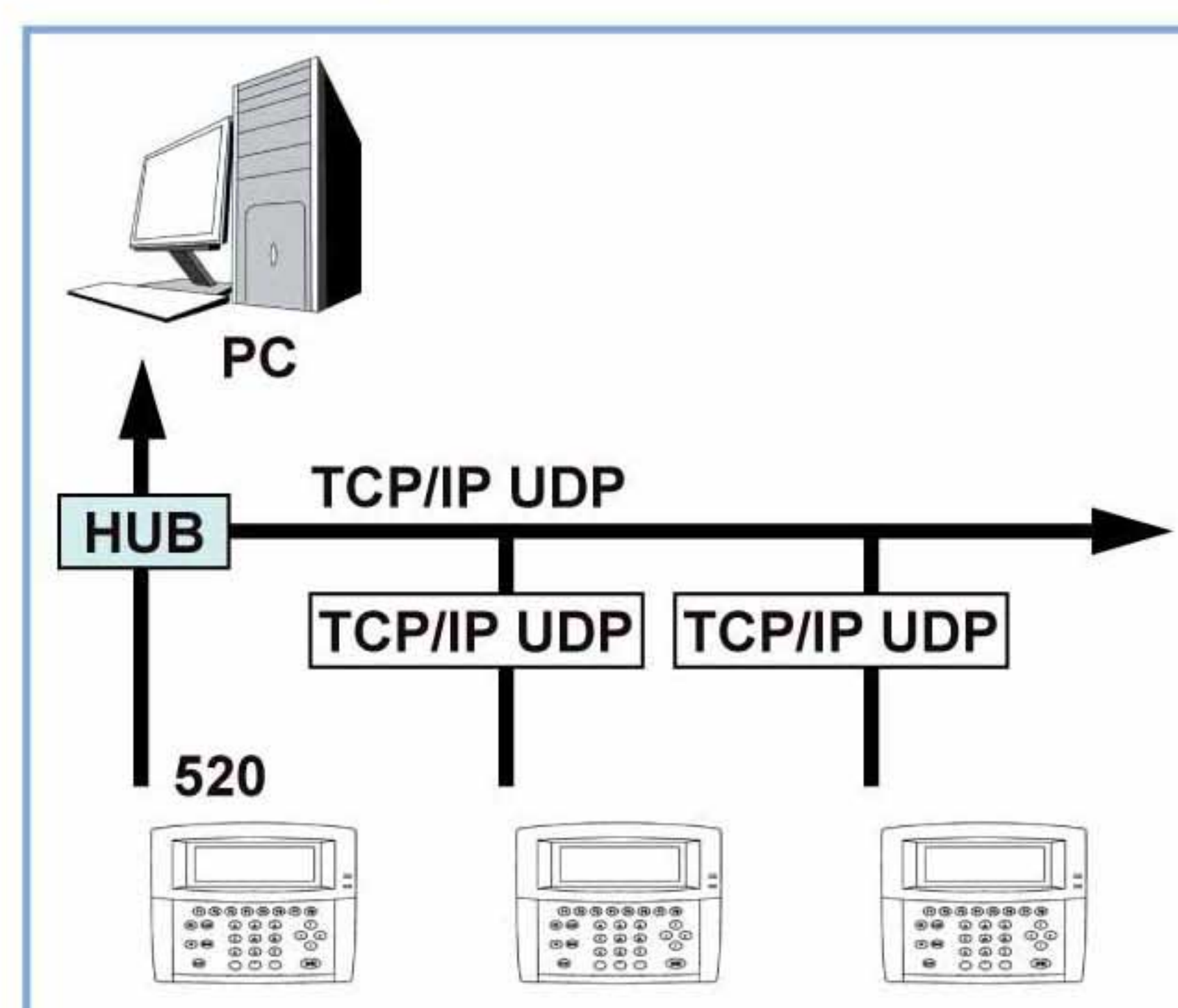|	
	COM1 and COM2 are configurable for RS232/ RS485(half and full duplex) /20mA current loop, COM3 is Fixed to RS232
Optional Cards:	on-board TCP / IP cards

Safety & Regulatory Approvals

FCC class-A, CE, C-tick

Input Device

Built-in Slot Type Reader:	An optional Barcode Slot Reader or Magnetic Stripe Reader can be Included
Reader Ports:	2 reader ports available, each can be used to attach Barcode Slot, Wand, Laser or up to dual track Magnetic Stripe Readers
Symbology Supported:	Code 39/Full ASCII, Codabar, Italy Pharma Code, Industrial 2 of 5, Interleave 2 of 5, Matrix 2 of 5, Code93, Code 128, EAN 128, MSI, EAN 8 & 13, UPCA & E, Plessey
Built-in Keypad:	Rubber keybord with 30 keys including 8 function keys
External Keyboard:	PS/2 Type through mini-Din connector

Battery

Operation Battery:	Up to 2 mobile phone battery pack , optional 1.2V x 6, 1200 or 1800mAh rechargeable NiMH battery for operation backup
Operation Battery Control:	The battery voltage can be monitored. An on-board self-shutdown circuit is included to prevent over-discharge of battery
Backup Battery:	3.6V, 60mAh NiMH battery for Memory and calendar backup

Calendar

Fine-tunable calendar chip with battery back-up

Digital Input/Output

Input/Output:	Up to 4 digital inputs & 4 digital outputs are available
Types of Input:	CMOS level or photo-coupler can be used to monitor external devices
Types of Output:	COMS level, Open-collector or Relay output can be used to control extrnal devices such as alarm, door lock switches etc.

Configuration

Networking Architecture

Up to 99 stations (using repeaters)

TÜV CERT
DIN EN ISO 9001