

Cubean

Cubean TX Protocol (Controller → Roaster)

- **Direction:** Arduino/controller → Cubean roaster
- **Rate:** 9600 baud, 8 data bits, no parity, 1 stop bit (SERIAL_8N1)
- **Interval:** Sent every ~200ms
- **Packet Length:** 11 bytes
- **Structure:**

Byte Index	Hex	Meaning
0	FE	Start byte 1
1	EF	Start byte 2
2	00	Unused/reserved
3	00	Unused/reserved
4	5A	Drum/Cooler/Fan state (bitfield?)
5	64	Heat power (0-100 decimal)
6	02	Unknown, possibly a mode ID
7	76	Fan speed (0-255 scale)
8	AA	Marker
9	55	Marker
10	22	Checksum or end byte

Cubean RX Protocol (Roaster → Controller)

- **Direction:** Cubean roaster → Arduino/controller
- **Rate:** Same UART config: 9600 baud, SERIAL_8N1
- **Interval:** ~200ms
- **Packet Length:** 11 bytes
- **Structure:**

Byte Index	Hex	Meaning
0	FE	Start byte 1
1	EF	Start byte 2
2	0X	Temperature high nibble (BCD/hex?)
3	YY	Temperature low nibble
4	00	Unknown
5	00	Unknown
6	00	Possibly status byte
7	00	Possibly another status byte
8	AA	Marker
9	55	Marker
10	XX	Checksum or data byte

Revision #2

Created 2025-04-22 16:29:55 UTC by Nirecue

Updated 2025-07-16 06:35:24 UTC by Nirecue