

# Backup Integrated Electronics System

The BIES system, based on the same concept as the [MEGAMI](#) quantum computer, is a network of sensors, communications, and fire control all built around a small centralized computer system. BIES is a subordinate replacement system, even inferior to the AIES; but designed to both operate the functions of an escape pod as well as serve as a backup computer system for the escape pod's mother ship in case its main computer system goes offline for the proper operation of important internal system solely dependent on -IES computer functions.

The heart of the integrated electronics suite is a tiny, but advanced, quantum computer, capable of performing super-high-speed data-churning and possessing untold memory. Quantum computers, unlike old computers which could only process 1 and 0, can process an effectively infinite range of digits, making them awesomely powerful. In addition, the system's sub-particle memory system allows for truly magical storage and access speeds. Kessaku Anri and her company, Kessaku Electronics Systems Corporation, designed the system.

The Backup Integrated Electronics System is part of the [PANTHEON](#) (Projected Access Nodal Transuniversal Heuristic Electronic Operations Network) command and control system.

## Communications

The BIES comes equipped with a multi-channel wide-band array that gives both security and versatility. Among the types of communication supported are radio, laser, subspace, and hyperspace. Communications can be secured using Quantum Encryption technology, which (due to the Heisenberg Uncertainty Principle) allows the system to detect any monitoring attempts and counter them. Communications Systems of the BIES include: Radio: Full spectrum, dual-modulation; range theoretically unlimited except by interference. Practical range is short, since the waves only travel at light-speed. Frequency-hop and multi-channel capable. In order to use the secure modes of communication, correct variables must be loaded prior to battle. Such codes are changed on a frequent basis.

Subspace: Allows faster-than-light transmission. A standard means of communication; it is used for video streams. Inside the power armor's helmet, there's a small camera pointed at the pilot's face for this purpose. Not to be confused with hyperspace communications, which the escape pod lacks. The pod's CDD bubble is used as the transceiver for these communications.

Homing Device: Normally inactive, this beacon has an independent backup power supply that can keep it transmitting for up to ten years, even if the main power system is nonfunctional. If main power is available, the beacon will transmit constantly. If not, the beacon will put out a short distress message twice every two hours (five minutes between).

## Sensor Systems

Sensor systems of the BIES are rather limited, but have a similar range as the AIES. They also include:

Optical Tracking System (hull): Much like the NH-29S neko, it can see through its Active Camouflage sensors, giving it a view of its entire surroundings at all times.

Products & Items Database	
Product Categories	computers
Product Name	Backup Integrated Electronics System

From:

<https://wiki.stararmy.com/> - **STAR ARMY**

Permanent link:

<https://wiki.stararmy.com/doku.php?id=stararmy:equipment:bies>

Last update: **2023/12/21 01:01**

