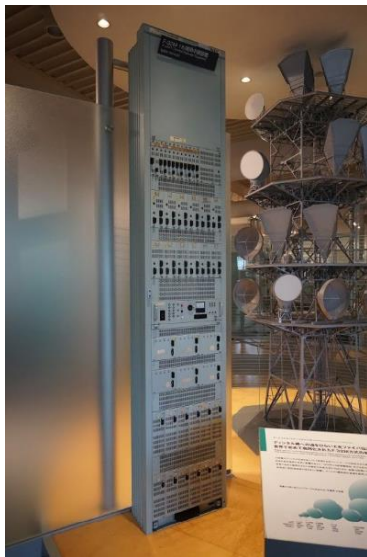


## The world's first commercial terminal repeater equipment using the F-32M system

Registration No.	Number 00275		
Registration Date	September 10, 2019	Registration Category	Category 1
Name (Model, etc.)	F-32M-1 Terminal Repeater Equipment		
Location	Musashino-shi, Tokyo		
	NTT History Center of Technologies		
Owner (Custodian)	NTT Information Network Laboratory Group		
Manufacturer (Company)	NEC Corporation		
Year Manufactured	1981		
Year first appeared	1981		
Reason For Selection	<p>The first repeater in the world commercially available using graded-index multi-mode optical fiber (GI) cable and the F-32M system (wavelength 1.3 <math>\mu\text{m}</math>, transmission capacity 32 Mb/s, relay length 20 km). It was used as trunk lines between central offices in a city or for relatively short long-distance circuits. The F-100M system for medium distances such as relay transmission within a prefecture was also commercialized in the same period, heralding the beginning of the optical fiber communication era in earnest. It is vital in exhibiting Japan's technology development of optical fiber cable transmission systems that made large-capacity digital transmission possible at low cost and made an impact on the world.</p>		
Registration Standard	<p>1-A (Show an important aspect or stage of the development of science and technology.)                  2-B (Made a notable contribution by facilitating an epoch-making advance in Japan's economy and place in the world.)</p>		
Open/Closed to Public	Open to Public		
Photo			
Other useful information			